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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/566,267	12/04/2006	Antonio Romano Moszoro	F587	5688

7590 02/21/2018
MARIAN W. MOSZORO
4141 N HENDERSON RD # 712
ARLINGTON, VA 22203

EXAMINER

NOVOSAD, CHRISTOPHER J

ART UNIT	PAPER NUMBER
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3671

MAIL DATE	DELIVERY MODE
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02/21/2018

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.



UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
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In re Patent No. 7,934,460
Issue Date: May 3, 2011
Application No. 11/566,267
Filed: December 4, 2006
Attorney Docket No. F587

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:
:
:

DECISION ON PETITION

This is a decision on the renewed petition under 37 CFR 1.378(b), filed November 17, 2017, to accept the unintentionally delayed payment of a maintenance fee for the above-identified patent.

The petition is **GRANTED**.

This patent expired on May 3, 2015, for failure to pay the 3.5 year maintenance fee.

The maintenance fee is hereby accepted and the above-identified patent is reinstated as of the mail date of this decision.

Any questions concerning this matter may be directed to the undersigned at (571) 272-6735.

Diane C. Goodwyn
Diane C. Goodwyn
Petitions Paralegal Specialist
Office of Petitions

Office of Petitions: Decision Count Sheet

Mailing Month

2

Application No.

11566267



For US serial numbers: enter number only, no slashes or commas. Ex: 10123456

For PCT: enter "51+single digit of year of filing+last 5 numbers", Ex. for PCT/US05/12345, enter 51512345

Deciding Official:

Goodwyn, Diane

Count (1) - Palm Credit

11566267

Decision:

GRANT

FINANCE WORK NEEDED

Select Check Box for YES



Decision Type:

533 - 37 CFR 1.378(c) - TO ACCEPT UNINTENTIONAL DE



Notes:

Count (2)

Decision:

n/a

FINANCE WORK NEEDED

Select Check Box for YES

Decision Type:

NONE

Notes:

Count (3)

Decision:

n/a

FINANCE WORK NEEDED

Select Check Box for YES

Decision Type:

NONE

Notes:

Initials of Approving Official (if required)

If more than 3 decisions, attach 2nd count sheet & mark this box



Printed on: 2/20/2018

Office of Petitions: Routing Sheet



4 7 0 0

Application No.

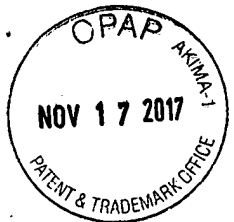
This application is being forwarded to your office for further processing. A decision has been rendered on a petition filed in this application, as indicated below. For details of this decision, please see the document PET.OP.DEC filed on the same date as this document.

GRANTED

DISMISSED

DENIED

DAC/IFW



Antonio Moszoro
Address for correspondence:
4141 N Henderson Rd Apt. 712
Arlington, VA 22203
USA

November 16, 2017

USPTO Office of Petitions

Attn.: Diane C. Goodwyn

Ref.: Patent No 7,934,460 (application No 11/566,267)

PETITION FOR REVIVAL AN UNINTENTIONALLY ABANDONED PATENT

Hereby, as the inventor I certify that the Patent No 7,934,460 (application No 11/566,267) was unintentionally abandoned. Therefore, I kindly request the revival of this patent.

The due fees and additional fees to process the petition for Patent No 7,934,460 were in person at the USPTO Office of Petitions in Alexandria, VA on April 21, 2016 by a representative (my son) in good faith. Enclosed, I provide the proper documentation to file a petition to accept the unintentionally delayed payment of a maintenance fee in an expired patent (form PTO/SB/66), along with a copy of the fees paid to process this petition.

Should the USPTO require any additional documentation, I will promptly provide it.

Yours,

A handwritten signature in black ink that reads "Antonio Moszoro". The signature is written in a cursive style with a horizontal line underneath.

Antonio Moszoro



PTO/SB/66 (08-15)

Approved for use through 07/31/2018. OMB 0651-0016
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PETITION TO ACCEPT UNINTENTIONALLY DELAYED PAYMENT OF MAINTENANCE FEE IN AN EXPIRED PATENT (37 CFR 1.378(b)) Page 1 of 3	Docket Number (Optional)
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Mail to: Mail Stop Petition
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450
Fax: (571) 273-8300

NOTE: If information or assistance is needed in completing this form, please contact the Office of Petitions at (571) 272-3282.

Patent No. 7934460 Application Number 11/566267
Issue Date 05/03/2011 Filing Date 12/04/2006

CAUTION: Maintenance fee payment must correctly identify: (1) the patent number (or reissue patent number, if a reissue) and (2) the application number of the actual U.S. application (or reissue application) leading to issuance of that patent to ensure the fee(s) is/are associated with the correct patent. 37 CFR 1.366(c) and (d).

Also complete the following information, if applicable.

The above-identified patent

is a reissue of original Patent No. _____ original issue date _____

original application number _____

original filing date _____

resulted from the entry into the U.S. under 35 U.S.C. 371 of international application _____

filed on _____

CERTIFICATE OF MAILING (37 CFR 1.8(a))

I hereby certify that this paper (* along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to Mail Stop Petition, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, or facsimile transmitted to the U.S. Patent and Trademark Office on the date shown below.

11/10/2017
Date

Antonio Romano Moszoro

BARTOLOME ESTANISLAO MOSZORO

Typed or Printed Name of Person Signing Certificate

[page 1 of 3]

This collection of information is required by 37 CFR 1.378(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11, 1.14 and 41.6. This collection is estimated to take 1 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Petition, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

**PETITION TO ACCEPT UNINTENTIONALLY DELAYED PAYMENT
OF MAINTENANCE FEE IN AN EXPIRED PATENT (37 CFR 1.378(b))**

Page 2 of 3

1. SMALL ENTITY

Patentee asserts, or has previously asserted, small entity status. See 37 CFR 1.27.

2. LOSS OF ENTITLEMENT TO SMALL ENTITY STATUS

Patentee is no longer entitled to small entity status. See 37 CFR 1.27(g).

3. MICRO ENTITY

Patentee certifies, or has previously certified, micro entity status. See 37 CFR 1.29
Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously.

4. LOSS OF ENTITLEMENT TO MICRO ENTITY STATUS

Patentee is no longer entitled to micro entity status. See 37 CFR 1.29(i).

5. MAINTENANCE FEE (37 CFR 1.20(e)-(g))

The appropriate maintenance fee must be submitted with this petition, unless it was paid earlier.

Undiscounted			Small Entity			Micro Entity		
Amount	Fee	(Code)	Amount	Fee	(Code)	Amount	Fee	(Code)
<input type="checkbox"/> \$ _____	3¼ yr fee	(1551)	<input type="checkbox"/> \$ _____	3¼ yr fee	(2551)	<input type="checkbox"/> \$ _____	3¼ yr fee	(3551)
<input type="checkbox"/> \$ _____	7¼ yr fee	(1552)	<input type="checkbox"/> \$ _____	7¼ yr fee	(2552)	<input type="checkbox"/> \$ _____	7¼ yr fee	(3552)
<input type="checkbox"/> \$ _____	11¼ yr fee	(1553)	<input type="checkbox"/> \$ _____	11¼ yr fee	(2553)	<input type="checkbox"/> \$ _____	11¼ yr fee	(3553)

MAINTENANCE FEE BEING SUBMITTED \$ _____

6. PETITION FEE

The petition fee required by 37 CFR 1.17(m) of:

\$ _____ Undiscounted (Fee Code 1558); or

\$ _____ Small Entity (Fee Code 2558)

must be paid as a condition of accepting an unintentionally delayed payment of a maintenance fee. (Note: There is currently no micro entity amount for the petition fee.)

PETITION FEE BEING SUBMITTED \$ _____

7. MANNER OF PAYMENT

- Enclosed is a check for the sum of \$ _____
- Please charge Deposit Account No. _____ the sum of \$ _____
- Payment by credit card. Form PTO-2038 is attached.
- Payment made via EFS-Web.

8. AUTHORIZATION TO CHARGE ANY FEE DEFICIENCY

- The Director is hereby authorized to charge any maintenance fee or petition deficiency to Deposit Account No. _____

PETITION TO ACCEPT UNINTENTIONALLY DELAYED PAYMENT OF MAINTENANCE FEE IN AN EXPIRED PATENT (37 CFR 1.378(b))

Page 3 of 3

9. OVERPAYMENT

As to any overpayment made, please

Credit to Deposit Account No. _____

OR

Send refund check

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information, such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form (PTO-2038) submitted for payment purposes), is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms (PTO-2038) submitted for payment purposes are not retained in the application file and therefore are not publicly available.

10. STATEMENT

The delay in payment of the maintenance fee for this patent was unintentional.

11. PETITIONER(S) REQUEST THAT THE DELAYED PAYMENT OF THE MAINTENANCE FEE BE ACCEPTED AND THE PATENT REINSTATED.

11/10/2017

Date

Antonio Romano Moszoro BARBOLOMEJ ESTANISLAO MOZORO
Signature of Petitioner
Typed or Printed Name(s)

Registration Number, if applicable

510-926-7738

Telephone Number

4141 N HENDERSON Rd # 712 ARLINGTON VA

Address

Address

37 CFR 1.378(c) states: "Any petition under this section must be signed in compliance with § 1.33(b)."

12. ENCLOSURES

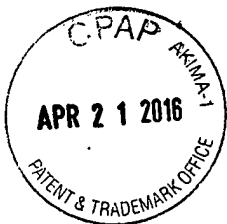
- Maintenance Fee Payment
- Petition fee under 37 CFR 1.17(m) (fee for filing the maintenance fee petition)
- _____
- _____

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.



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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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PETITION TO ACCEPT UNINTENTIONALLY DELAYED PAYMENT OF MAINTENANCE FEE IN AN EXPIRED PATENT (37 CFR 1.378(b))

Docket Number (Optional)

Page 1 of 3

Mail to: Mail Stop Petition
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450
Fax: (571) 273-8300

NOTE: If information or assistance is needed in completing this form, please contact the Office of Petitions at (571) 272-3282.

Patent No. US 7,934,460 B2 Application Number 11/566,267

Issue Date May. 3, 2011 Filing Date Dec. 4, 2006

CAUTION: Maintenance fee payment must correctly identify: (1) the patent number (or reissue patent number, if a reissue) and (2) the application number of the actual U.S. application (or reissue application) leading to issuance of that patent to ensure the fee(s) is/are associated with the correct patent. 37 CFR 1.366(c) and (d).

Also complete the following information, if applicable.

The above-identified patent

[] is a reissue of original Patent

original application number

original filing date

[] resulted from the entry into t

filed on

MARIAN W MOSZORO
1827 OXFORD ST
BERKELEY, CA 94709-1800

287

11-4288/1210 407
9957048797

April 21, 2016 DATE

PAY TO THE ORDER OF USPTO \$ 1,650

One thousand six hundred fifty DOLLARS



Wells Fargo Bank, N.A.
California
wellsfargo.com

FOR Patent No. 7,934,460 B2

Handwritten signature of Marian W Moszoro

00287

I hereby certify that this paper (* a Postal Service on the date shown b for Patents, P.O. Box 1450, Alexan below.

Date

Signature

Typed or Printed Name of Person Signing Certificate

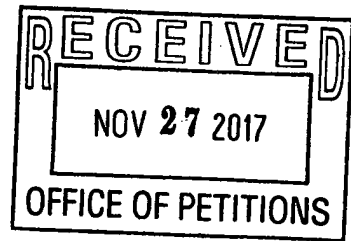
[page 1 of 3]

This collection of information is required by 37 CFR 1.378(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11, 1.14 and 41.6. This collection is estimated to take 1 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Petition, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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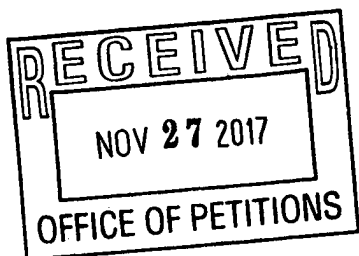
OFFICE OF PETITIONS
ATTN. DIANE C. GOODWYN
REF.:

- PATENT 6,615,755 (APPL NO. 10/260,953)
PETITION FOR REVIVAL AN UNINTENTIONALLY
ABANDONED PATENT
- *• PATENT 7,934,460 (APPL NO. 11/566,267)
PETITION FOR REVIVAL AN UNINTENTIONALLY
ABANDONED PATENT

13 (THIRTEEN) PAGES INCLUDING THIS

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NOV 17 2017



Antonio Moszoro
Address for correspondence:
4141 N Henderson Rd Apt. 712
Arlington, VA 22203
USA

November 16, 2017

USPTO Office of Petitions
Attn.: Diane C. Goodwyn
Ref.: Patent No 7,934,460 (application No 11/566,267)

PETITION FOR REVIVAL AN UNINTENTIONALLY ABANDONED PATENT

Hereby, as the inventor I certify that the Patent No 7,934,460 (application No 11/566,267) was unintentionally abandoned. Therefore, I kindly request the revival of this patent.

The due fees and additional fees to process the petition for Patent No 7,934,460 were in person at the USPTO Office of Petitions in Alexandria, VA on April 21, 2016 by a representative (my son) in good faith. Enclosed, I provide the proper documentation to file a petition to accept the unintentionally delayed payment of a maintenance fee in an expired patent (form PTO/SB/66), along with a copy of the fees paid to process this petition.

Should the USPTO require any additional documentation, I will promptly provide it.

Yours,

Antonio Moszoro

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**PETITION TO ACCEPT UNINTENTIONALLY DELAYED PAYMENT
OF MAINTENANCE FEE IN AN EXPIRED PATENT (37 CFR 1.378(b))**

Page 2 of 3

1. SMALL ENTITY

Patentee asserts, or has previously asserted, small entity status. See 37 CFR 1.27.

2. LOSS OF ENTITLEMENT TO SMALL ENTITY STATUS

Patentee is no longer entitled to small entity status. See 37 CFR 1.27(g).

3. MICRO ENTITY

Patentee certifies, or has previously certified, micro entity status. See 37 CFR 1.29
Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously.

4. LOSS OF ENTITLEMENT TO MICRO ENTITY STATUS

Patentee is no longer entitled to micro entity status. See 37 CFR 1.29(f).

5. MAINTENANCE FEE (37 CFR 1.20(e)-(g))

The appropriate maintenance fee must be submitted with this petition, unless it was paid earlier.

Undiscounted			Small Entity			Micro Entity		
Amount	Fee	(Code)	Amount	Fee	(Code)	Amount	Fee	(Code)
<input type="checkbox"/> \$ _____	3¼ yr fee	(1551)	<input type="checkbox"/> \$ _____	3¼ yr fee	(2551)	<input type="checkbox"/> \$ _____	3¼ yr fee	(3551)
<input type="checkbox"/> \$ _____	7½ yr fee	(1552)	<input type="checkbox"/> \$ _____	7½ yr fee	(2552)	<input type="checkbox"/> \$ _____	7½ yr fee	(3552)
<input type="checkbox"/> \$ _____	11¼ yr fee	(1553)	<input type="checkbox"/> \$ _____	11¼ yr fee	(2553)	<input type="checkbox"/> \$ _____	11¼ yr fee	(3553)

MAINTENANCE FEE BEING SUBMITTED \$ _____

6. PETITION FEE

The petition fee required by 37 CFR 1.17(m) of:

\$ _____ Undiscounted (Fee Code 1558); or

\$ _____ Small Entity (Fee Code 2558)

must be paid as a condition of accepting an unintentionally delayed payment of a maintenance fee. (Note: There is currently no micro entity amount for the petition fee.)

PETITION FEE BEING SUBMITTED \$ _____

7. MANNER OF PAYMENT

- Enclosed is a check for the sum of \$ _____
- Please charge Deposit Account No. _____ the sum of \$ _____
- Payment by credit card. Form PTO-2038 is attached.
- Payment made via EFS-Web.

8. AUTHORIZATION TO CHARGE ANY FEE DEFICIENCY

The Director is hereby authorized to charge any maintenance fee or petition deficiency to Deposit Account No. _____

USPTO
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PTO/58/66 (08-15)

Approved for use through 07/31/2018. OMB 0651-0016

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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PETITION TO ACCEPT UNINTENTIONALLY DELAYED PAYMENT OF MAINTENANCE FEE IN AN EXPIRED PATENT (37 CFR 1.378(b))

Page 3 of 3

9. OVERPAYMENT

As to any overpayment made, please

Credit to Deposit Account No. _____

OR

Send refund check

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information, such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form (PTO-2038) submitted for payment purposes), is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms (PTO-2038) submitted for payment purposes are not retained in the application file and therefore are not publicly available.

10. STATEMENT

The delay in payment of the maintenance fee for this patent was unintentional.

11. PETITIONER(S) REQUEST THAT THE DELAYED PAYMENT OF THE MAINTENANCE FEE BE ACCEPTED AND THE PATENT REINSTATED.

11/10/2017

Date

Antonio Romano Moszoro

Signature

ANTONIO ROMANO STANISLAW MOSZORO

Typed or Printed Name(s)

Registration Number, if applicable

510-926-7738

Telephone Number

4141 N HENDERSON Rd # 712 ARLINGTON VA

Address

Address

37 CFR 1.378(c) states: "Any petition under this section must be signed in compliance with § 1.33(b)."

12. ENCLOSURES

- Maintenance Fee Payment
- Petition fee under 37 CFR 1.17(m) (fee for filing the maintenance fee petition)
-

USPTO RECEIPTS ACCOUNTING DIVISION

NOV 17 2 02 PM '17

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

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PTO/SB/66 (09-15)

Approved for use through 07/31/2018. OMB 0651-0016
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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PETITION TO ACCEPT UNINTENTIONALLY DELAYED PAYMENT OF MAINTENANCE FEE IN AN EXPIRED PATENT (37 CFR 1.378(b))	Docket Number (Optional)
Page 1 of 3	

Mail to: Mail Stop Petition
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450
Fax: (571) 273-8300

NOTE: If information or assistance is needed in completing this form, please contact the Office of Petitions at (571) 272-3282.

Patent No. US 7,934,460 B2 Application Number 11/566,267
 Issue Date May. 3, 2011 Filing Date Dec. 4, 2006

CAUTION: Maintenance fee payment must correctly identify: (1) the patent number (or reissue patent number, if a reissue) and (2) the application number of the actual U.S. application (or reissue application) leading to issuance of that patent to ensure the fee(s) is/are associated with the correct patent. 37 CFR 1.368(c) and (d).

Also complete the following information, if applicable.

The above-identified patent

is a reissue of original Patent

original application number _____

original filing date _____

resulted from the entry into

filed on _____

I hereby certify that this paper (or a Postal Service on the date shown below) for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

MARIAN W MOSZORO
1827 OXFORD ST
BERKELEY, CA 94709-1800

April 21, 2016 DATE

PAY TO THE ORDER OF USPTO \$ 1,650
One thousand six hundred fifty DOLLARS

Wells Fargo Bank, N.A.
California
wellsfargo.com

FOR Patent No. 7,934,460 B2

00287

2017 NOV 22 PM 3:17

USPTO RECEIPTS ACCOUNTING DIVISION

Date _____ Signature _____
 Typed or Printed Name of Person Signing Certificate _____

[Page 1 of 3]
 This collection of information is required by 37 CFR 1.378(b). The information is required to obtain or retain a benefit by the public, which is to file (and) by the USPTO to process an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11, 1.14 and 41.6. This collection is estimated to take 1 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Petition, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.
 If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

The PTO did not receive the following listed item(s) Copy Check

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UNITED STATES DEPARTMENT OF COMMERCE
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P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/566,267	12/04/2006	Antonio Romano Moszoro	F587	5688

7590 09/20/2017
MARIAN W. MOSZORO
4141 N HENDERSON RD # 712
ARLINGTON, VA 22203

EXAMINER

NOVOSAD, CHRISTOPHER J

ART UNIT	PAPER NUMBER
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3671

MAIL DATE	DELIVERY MODE
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09/20/2017

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.



UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

In re Patent No. 7,934,460 :
Issue Date: May 3, 2011 :
Application No. 11/566,267 : **DECISION ON PETITION**
Filed: December 4, 2006 :
Attorney Docket No. F587 :

This is a decision on the petitions filed, filed February 22, 2017, and April 4, 2017, for revival an unintentionally abandoned patent.

The petitions are **DISMISSED**.

If reconsideration of this decision is desired, a petition for reconsideration under 37 CFR 1.378(d) must be filed within **TWO (2) MONTHS** from the mail date of this decision. No extension of this two-month time limit can be granted under 37 CFR 1.136(a) or (b). This is **not** a final agency action within the meaning of 5 U.S.C. § 704.

Petitioner has improperly requested revival of an abandoned application. If petitioner intends to file a petition to accept unintentionally delayed payment of a maintenance fee in an expired patent, the **proper form (PTO/SB/66)** should be used. Form PTO/SB/66 is available on the United States Patent and Trademark (USPTO) website at www.uspto.gov. Note: The use of USPTO forms is not required, however, other submissions must meet the required Patent Rules, Laws, and Orders and Notices of the Director of the USPTO.

Further, Petitioner has requested an action to be done in Patent No. 6,615,755 (Application No. 10/260,953), in this regard, Petitioner’s attention should be directed to 37 CFR 1.4 (2)(b), which states:

“Since each file must be complete in itself, a separate copy of every paper to be filed in a patent, patent file, or other proceeding must be furnished for each file to which the paper pertains, even though the contents of the papers filed in two or more files may be identical. The filing of duplicate copies of correspondence in the file of an application, patent, or other proceeding should be avoided, except in situations in which the Office requires the filing of duplicate copies. The Office may dispose of duplicate copies of correspondence in the file of an application, patent, or other proceeding.”

Accordingly, any request made in Patent No. 6,615, 755 must be in a **separate filing** since it does not pertain to the instant patent.

Art Unit: OPET

Further correspondence with respect to this matter should be addressed as follows:

By hand: Customer Service Window
Mail Stop Petitions
Randolph Building
401 Dulany Street
Alexandria, VA 22314

By fax: (571) 273-8300
ATTN: Office of Petitions

By internet: EFS-Web¹

Any questions concerning this matter may be directed to the undersigned at (571) 272-6735.

/Diane C. Goodwyn/
Diane C. Goodwyn
Petitions Paralegal Specialist
Office of Petitions

¹ www.uspto.gov/ebc/efs_help.html (for help using EFS-Web call the Patent Electronic Business Center at (866) 217-9197)

Office of Petitions: Routing Sheet



4 7 0 0

Application No.

This application is being forwarded to your office for further processing. A decision has been rendered on a petition filed in this application, as indicated below. For details of this decision, please see the document PET.OP.DEC filed on the same date as this document.

GRANTED

DISMISSED

DENIED

Office of Petitions: Decision Count Sheet

Mailing Month

9

Application No.

11566267



For US serial numbers: enter number only, no slashes or commas. Ex: 10123456

For PCT: enter "51+single digit of year of filing+last 5 numbers", Ex. for PCT/US05/12345, enter 51512345

Deciding Official:

Goodwyn, Diane

Count (1) - Palm Credit

11566267

Decision:

DISMISSED

FINANCE WORK NEEDED

Select Check Box for YES



Decision Type:

533 - 37 CFR 1.378(c) - TO ACCEPT UNINTENTIONAL DE



Notes:

Count (2)

Decision:

n/a

FINANCE WORK NEEDED

Select Check Box for YES

Decision Type:

NONE

Notes:

Count (3)

Decision:

n/a

FINANCE WORK NEEDED

Select Check Box for YES

Decision Type:

NONE

Notes:

Initials of Approving Official (if required)

If more than 3 decisions, attach 2nd count sheet & mark this box



Printed on: 9/19/2017



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www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/566,267	12/04/2006	Antonio Romano Moszoro	F587

MARIAN W. MOSZORO
4141 N HENDERSON RD # 712
ARLINGTON, VA 22203

CONFIRMATION NO. 5688
POA ACCEPTANCE LETTER



Date Mailed: 04/20/2017

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 04/04/2017.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at (571) 272-4000 or (571) 272-4200 or 1-888-786-0101.

/afessechaye/



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/566,267	12/04/2006	Antonio Romano Moszoro	F587

MARIAN W. MOSZORO
4141 N HENDERSON RD # 712
ARLINGTON, VA 22203

CONFIRMATION NO. 5688
POWER OF ATTORNEY NOTICE



Date Mailed: 04/20/2017

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 04/04/2017.

- The Power of Attorney to you in this application has been revoked by the applicant. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at (571) 272-4000 or (571) 272-4200 or 1-888-786-0101.

/afessehaye/

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APR 04 2017

OFFICE OF PETITIONS
ATTN. DIANE C. GOODWYN
REF.:

- PATENT 7,934,460 (APPL NO. 11/566,267)
POWER OF ATTORNEY & STATEMENT OF
UNINTENTIONALLY DELAY

3 (THREE) PAGES INCLUDING THIS

Office of Petitions.

Attn.: Diane C. Goodwyn

Ref.: Patent No 7,934,460 (application No 11/566,267)

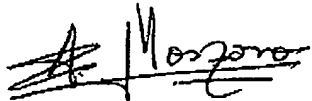
Petition for revival an unintentionally abandoned patents

Hereby, as the inventor I certify that the Patent No 7,934,460 (application No 11/566,267) was unintentionally abandoned. Therefore, I kindly request the revival of this patent.

The due fees for Patent No 7,934,460 were at the USPTO Office of Petitions in Alexandria, VA on April 21, 2016 by a representative (my son) in good faith, but without attaching the power of attorney. According to your Confirmation No. 5688 (Miscellaneous Notice) dated on 03/03/2017 the signature of the co-inventor Bartolomé Estanislao Moszoro had been omitted in The Power of Attorney presented. Hereby, I provide the proper documentation along with the additional fees to process this petition.

Should the USPTO require any additional documentation, I will be willing to promptly provide it.

Yours faithfully,



Antonio Moszoro

APR 04 2017

PTO/AIA/81 (07-12)

Approved for use through 11/30/2014. OMB 0651-0035

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

POWER OF ATTORNEY TO ONE OR MORE OF THE JOINT INVENTORS AND CHANGE OF CORRESPONDENCE ADDRESS	Application Number	11566267
	Filing Date	12/04/2006
	First Named Inventor	ANTONIO ROMANO MOSZORO
	Art Unit	38143533 (family ID)
	Examiner Name	Christopher J. Novosad
	Title	Electropneumatic installation applied to seeders having independent units associated to pneumatic seeds dosing devices.

NOTE: This form may be filed by *pro se* inventors (*i.e.*, prosecuting the application without a registered patent practitioner) who are identified as the Applicant in the above-identified application. For a Power of Attorney to one or more registered patent practitioners, see form PTO/AIA/82.

I hereby revoke all previous powers of attorney given in the above-identified application.

I hereby appoint the following joint inventor(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith:

MARIAN W. MOSZORO

Please recognize or change the correspondence address for the above-identified application to:

The address associated with Customer Number. (if applicable):
-To Request A Customer Number see form PTO/SB/124

OR

<input checked="" type="checkbox"/> Individual Name	MARIAN W. MOSZORO		
Address	4141 N HENDERSON Rd. # 712		
City	ARLINGTON	State	VA
		Zip	22203
Country	UNITED STATES		
Telephone	510-926-7738	Email	mmosozoro@gmail.com

I am the Inventor.

SIGNATURE of Inventor			
Signature	<i>[Signature]</i>	Date	Feb 28 2017
Name	ANTONIO ROMANO MOSZORO	Telephone	+54 9 341 5010065
	BARTOLOME ESTANISLAO MOSZORO		

NOTE: Signatures of all the inventors are required. Submit multiple forms if more than one signature is required, see below. See 37 CFR 1.4 for signature requirements and certifications.

*Total of 1 (one) forms are submitted.

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



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UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/566,267	12/04/2006	Antonio Romano Moszoro	F587

34440
COLLEN IP
THE HOLYOKE MANHATTAN BUILDING
80 SOUTH HIGHLAND AVENUE
OSSINING, NY 10562

CONFIRMATION NO. 5688
MISCELLANEOUS NOTICE



Date Mailed: 03/03/2017

A communication which cannot be delivered in electronic form has been mailed to the applicant.


UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
 United States Patent and Trademark Office
 Address: COMMISSIONER FOR PATENTS
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 Alexandria, Virginia 22313-1450
 www.uspto.gov

APPLICATION NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/566,267	12/04/2006	Antonio Romano Moszoro	F587

CONFIRMATION NO. 5688

34440
 COLLEN IP
 THE HOLYOKE MANHATTAN BUILDING
 80 SOUTH HIGHLAND AVENUE
 OSSINING, NY 10562



OC00000089639997

CC: MARIAN W. MOSZORO
 4141 N HENDERSON RD # 712
 ARLINGTON, VA 22203

 Date Mailed: **03/3/2017**
DENIAL OF REQUEST FOR POWER OF ATTORNEY

The request for Power of Attorney filed 02/22/2017 is acknowledged. However, the request cannot be granted at this time for the reason stated below.

- The Power of Attorney you provided did not comply with the new Power of Attorney rules that became effective on June 25, 2004. See 37 CFR 1.32.
- The revocation is not signed by the applicant, the assignee of the entire interest, or one particular principal attorney having the authority to revoke.
- The Power of Attorney is from an assignee and the Certificate required by 37 CFR 3.73 has not been received.
- The person signing for the assignee has omitted their empowerment to sign on behalf of the assignee.
- The inventor(s) is without authority to appoint attorneys since the assignee has intervened as provided by 37 CFR 3.71.
- The signature(s) of **Bartolome Estanishlao Moszoro**; a co-inventor in this application has been omitted. The Power of Attorney will be entered upon receipt of confirmation signed by said co-inventor(s).
- The person(s) appointed in the Power of Attorney is not registered to practice before the U.S. Patent and Trademark Office.
- Only one Customer Number can be designated for the Power of Attorney in an application. The Customer Number that was captured is the first Customer Number provided on the Power of Attorney document.



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- A request under 37 CFR 1.48 to add an inventor was granted in this application, however, no power of attorney consistent with the power of attorney granted by the originally named inventive entity has been received. Thus, the addition of the inventor has resulted in the loss of power of attorney in the application. See 37 CFR 1.32(e).
- The power of attorney has not been accepted because the party who is giving power of attorney has not been identified. Power of attorney may only be signed by the applicant for patent (37 CFR 1.42) or the patent owner. A patent owner who was not the applicant must appoint any power of attorney in compliance with 37 CFR 3.71 and 3.73. See 37 CFR 1.32(b)(4).
- The power of attorney from the inventors has not been accepted because it is a copy from a prior national application for which benefit is claimed and the continuing application names an inventor who was not named as an inventor in the prior application.
- The power of attorney from the inventors has not been accepted because the power of attorney must be signed by the applicant for patent. See 37 CFR 1.32(b)(4).
- Any request to correct or update the name of the applicant must include an application data sheet (ADS) in compliance with 37 CFR 1.76 specifying the correct or updated name of the applicant in the applicant information section. Any request to change the applicant after an original applicant has been specified under 37 CFR 1.46(b) must include a new ADS in compliance with 37 CFR 1.76 specifying the applicant in the applicant information section and comply with 37 CFR 3.71 and 3.73. See 37 CFR 1.46(c).

Any inquiries regarding this notice should be directed to the Application Assistance Unit at 571-272-4200.

Application Assistance Unit
571-272-4200

FEB 22 2017

Office of Petitions.

Attn.: Diane C. Goodwyn

Ref.: Patent No 7,934,460 (application No 11/566,267) / patent No 6,615,755 (application No 10/260,953).

Petition for revival an unintentionally abandoned patents

Hereby, as the inventor I certify that the Patent No 7,934,460 (application No 11/566,267) and Patent No 6,615,755 (application No 10/260,953) were unintentionally abandoned. Therefore, I kindly request the revival of these patents.

The due fees for Patent No 7,934,460 and Patent No 6,615,755 were at the USPTO Office of Petitions in Alexandria, VA on April 21, 2016 by a representative (my son) in good faith, but without attaching the power of attorney. Hereby, I provide the proper documentation along with the additional fees to process this petition.

Should the USPTO require any additional documentation, I will be willing to promptly provide it.

Yours faithfully,



Antonio Moszoro

FEB 22 2017

PTO/AIA/81 (07-12)

Approved for use through 11/30/2014. OMB 0651-0035
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

POWER OF ATTORNEY TO ONE OR MORE OF THE JOINT INVENTORS AND CHANGE OF CORRESPONDENCE ADDRESS	Application Number	11566267
	Filing Date	12/04/2006
	First Named Inventor	ANTONIO ROMANO MOSTORO
	Art Unit	38143533 (family ID)
	Examiner Name	Christopher J. Novosel
	Title	Electropneumatic installation applied to seeders having independent units associated to pneumatic seed dosing devices

NOTE: This form may be filed by *pro se* inventors (i.e., prosecuting the application without a registered patent practitioner) who are identified as the Applicant in the above-identified application. For a Power of Attorney to one or more registered patent practitioners, see form PTO/AIA/82.

I hereby revoke all previous powers of attorney given in the above-identified application.

I hereby appoint the following joint inventor(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith:

MARIAN W. MOSTORO

Please recognize or change the correspondence address for the above-identified application to:

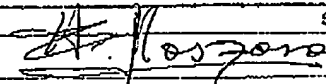
The address associated with Customer Number. (if applicable):

-To Request A Customer Number see form PTO/SE/124

OR

<input checked="" type="checkbox"/> Individual Name	MARIAN W. MOSTORO.		
Address	4141 N HENDERSON Rd # 712		
City	ARLINGTON	State	VA
		Zip	22203
Country	UNITED STATES		
Telephone	510-926-7738	Email	mmostoro@gmail.com.

I am the inventor.

SIGNATURE of Inventor	
Signature	
Date	04/04/2016
Name	ANTONIO ROMANO MOSTORO
Telephone	+54 9 341 5010065

NOTE: Signatures of all the inventors are required. Submit multiple forms if more than one signature is required, see below. See 37 CFR 1.4 for signature requirements and certifications.

*Total of 1 (one) forms are submitted.

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 422 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450 Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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FEB 22 2017

OFFICE OF PETITIONS
ATTN: DIANE C. GOODWYN
REF.:

- PATENT 7,934,460 (APPL NO. 11/566,267) *
POWER OF ATTORNEY & STATEMENT OF
UNINTENTIONALLY DELAY
- PATENT 6,615,755 (APPL NO. 10/260,953)
POWER OF ATTORNEY & STATEMENT OF
UNINTENTIONALLY DELAY

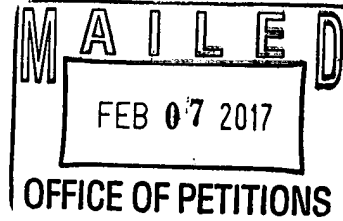
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COLLEN IP
THE HOLYOKE MANHATTAN BUILDING
80 SOUTH HIGHLAND AVENUE \\
OSSINING NY 10562



In re Patent No. 7,934,460
Issue Date: May 3, 2011
Application No. 11/566,267
Filed: December 4, 2006
Attorney Docket No. F587

:
:
: DECISION ON PETITION
:
:

This is a decision on the petition under 37 CFR 1.378(b), filed April 21, 2016, to accept the unintentionally delayed payment of a maintenance fee for the above-identified patent.

The petition under 37 CFR 1.378(b) is **DISMISSED**.

If reconsideration of this decision is desired, a petition for reconsideration under 37 CFR 1.378(d) must be filed within **TWO (2) MONTHS** from the mail date of this decision. No extension of this two-month time limit can be granted under 37 CFR 1.136(a) or (b). This is **not** a final agency action within the meaning of 5 U.S.C. § 704.

A petition to accept the unintentionally delayed payment of a maintenance fee under 35 U.S.C. 41(c) and 37 CFR 1.378(b) must be accompanied by:
11566267

- (1) a statement that the delay was unintentional;
- (2) payment of the appropriate maintenance fee, unless previously submitted; and
- (3) payment of the petition fee set forth in 37 CFR 1.17(m).

This petition lacks item (1) above.

With respect to item (1): the unintentional delay statement is considered to not contain a proper signature since it cannot be determined if the person signing has an interest in the above-identified patent and is authorized to sign.

Applicant's attention is directed to 37 CFR 1.33(b), which states:

(b) *Amendments and other papers.* Amendments and other papers, except for written assertions pursuant to § 1.27(c)(2)(ii) of this part, filed in the application must be signed by:

- (1) A patent practitioner of record appointed in compliance with § 1.32(b);
- (2) A patent practitioner not of record who acts in a representative capacity under the provisions of § 1.34;

- (3) An assignee as provided for under §3.71(b) of this chapter; or
- (4) All of the applicants (§ 1.41(b)) for patent, unless there is an assignee of the entire interest and such assignee has taken action in the application in accordance with § 3.71 of this chapter.

More specifically, 37 CFR 1.31 states:

An applicant for patent may file and prosecute the applicant's own case, or the applicant may give power of attorney so as to be represented by one or more patent practitioners or joint inventors, except that a juristic entity (*e.g.*, organizational assignee) must be represented by a patent practitioner even if the juristic entity is the applicant. The Office cannot aid in the selection of a patent practitioner.

Further correspondence with respect to this matter should be addressed as follows:

By hand: Customer Service Window
 Mail Stop Petitions
 Randolph Building
 401 Dulany Street
 Alexandria, VA 22314

By fax: (571) 273-8300
 ATTN: Office of Petitions

By internet: EFS-Web¹

Any questions concerning this matter may be directed to the undersigned at (571) 272-6735.

/ Diane C. Goodwyn/
Diane C. Goodwyn
Paralegal Specialist
Office of Petitions

¹ www.uspto.gov/ebc/efs_help.html (for help using EFS-Web call the Patent Electronic Business Center at (866) 217-9197)



\$

PTO/SB/66 (08-15)

Approved for use through 07/31/2018. OMB 0651-0016

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PETITION TO ACCEPT UNINTENTIONALLY DELAYED PAYMENT OF MAINTENANCE FEE IN AN EXPIRED PATENT (37 CFR 1.378(b))

Docket Number (Optional)

Page 1 of 3

Mail to: Mail Stop Petition
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450
Fax: (571) 273-8300

NOTE: If information or assistance is needed in completing this form, please contact the Office of Petitions at (571) 272-3282.

Patent No. US 7,934,460 B2 Application Number 11/566,267
Issue Date May. 3, 2011 Filing Date Dec. 4, 2006

CAUTION: Maintenance fee payment must correctly identify: (1) the patent number (or reissue patent number, if a reissue) and (2) the application number of the actual U.S. application (or reissue application) leading to issuance of that patent to ensure the fee(s) is/are associated with the correct patent. 37 CFR 1.366(c) and (d).

04/27/2016 DALLEN 00000032 7934460

Also complete the following information, if applicable.

01 FC:1599

1650.00 OP

The above-identified patent

is a reissue of original Patent No. _____ original issue date _____
original application number _____
original filing date _____

resulted from the entry into the U.S. under 35 U.S.C. 371 of international application _____
filed on _____

CERTIFICATE OF MAILING (37 CFR 1.8(a))

I hereby certify that this paper (* along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to Mail Stop Petition, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, or facsimile transmitted to the U.S. Patent and Trademark Office on the date shown below.

Date

Signature

Typed or Printed Name of Person Signing Certificate

[page 1 of 3]

This collection of information is required by 37 CFR 1.378(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11, 1.14 and 41.6. This collection is estimated to take 1 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Petition, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

RECEIVED

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**PETITION TO ACCEPT UNINTENTIONALLY DELAYED PAYMENT
 OF MAINTENANCE FEE IN AN EXPIRED PATENT (37 CFR 1.378(b))**

Page 2 of 3

1. SMALL ENTITY

Patentee asserts, or has previously asserted, small entity status. See 37 CFR 1.27.

2. LOSS OF ENTITLEMENT TO SMALL ENTITY STATUS

Patentee is no longer entitled to small entity status. See 37 CFR 1.27(g).

3. MICRO ENTITY

Patentee certifies, or has previously certified, micro entity status. See 37 CFR 1.29
 Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously.

4. LOSS OF ENTITLEMENT TO MICRO ENTITY STATUS

Patentee is no longer entitled to micro entity status. See 37 CFR 1.29(i).

5. MAINTENANCE FEE (37 CFR 1.20(e)-(g))

The appropriate maintenance fee must be submitted with this petition, unless it was paid earlier.

RECEIVED
 11/14/04
 11:40 AM
 RECEIVING

Undiscounted			Small Entity			Micro Entity		
Amount	Fee	(Code)	Amount	Fee	(Code)	Amount	Fee	(Code)
<input type="checkbox"/> \$ _____	3½ yr fee	(1551)	<input checked="" type="checkbox"/> \$ 800	3½ yr fee	(2551)	<input type="checkbox"/> \$ _____	3½ yr fee	(3551)
<input type="checkbox"/> \$ _____	7½ yr fee	(1552)	<input type="checkbox"/> \$ _____	7½ yr fee	(2552)	<input type="checkbox"/> \$ _____	7½ yr fee	(3552)
<input type="checkbox"/> \$ _____	11½ yr fee	(1553)	<input type="checkbox"/> \$ _____	11½ yr fee	(2553)	<input type="checkbox"/> \$ _____	11½ yr fee	(3553)

MAINTENANCE FEE BEING SUBMITTED \$ 800

6. PETITION FEE

The petition fee required by 37 CFR 1.17(m) of:

\$ _____ Undiscounted (Fee Code 1558); or
 \$ 850 Small Entity (Fee Code 2558)

must be paid as a condition of accepting an unintentionally delayed payment of a maintenance fee. (Note: There is currently no micro entity amount for the petition fee.)

PETITION FEE BEING SUBMITTED \$ 850

7. MANNER OF PAYMENT

- Enclosed is a check for the sum of \$ 1,650.-
- Please charge Deposit Account No. _____ the sum of \$ _____
- Payment by credit card. Form PTO-2038 is attached.
- Payment made via EFS-Web.

8. AUTHORIZATION TO CHARGE ANY FEE DEFICIENCY

The Director is hereby authorized to charge any maintenance fee or petition deficiency to Deposit Account No. _____



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PETITION TO ACCEPT UNINTENTIONALLY DELAYED PAYMENT OF MAINTENANCE FEE IN AN EXPIRED PATENT (37 CFR 1.378(b))

Page 3 of 3

9. OVERPAYMENT

As to any overpayment made, please

Credit to Deposit Account No. _____

OR

Send refund check

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information, such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form (PTO-2038) submitted for payment purposes), is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms (PTO-2038) submitted for payment purposes are not retained in the application file and therefore are not publicly available.

10. STATEMENT

The delay in payment of the maintenance fee for this patent was unintentional.

11. PETITIONER(S) REQUEST THAT THE DELAYED PAYMENT OF THE MAINTENANCE FEE BE ACCEPTED AND THE PATENT REINSTATED.

April 21, 2016
Date

Marian Moszoro
Signature(s) of Petitioner(s)

Registration Number, if applicable

MARIAN MOSZORO
Typed or Printed Name(s)

1-510-926-7738
Telephone Number

2480 Anna Dr.
Address

Santa Clara, CA 95050
Address

37 CFR 1.378(c) states: "Any petition under this section must be signed in compliance with § 1.33(b)."

12. ENCLOSURES

- Maintenance Fee Payment
- Petition fee under 37 CFR 1.17(m) (fee for filing the maintenance fee petition)
- _____

APR 21 2016 4:04 PM
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PTO

Document code: WFEE

United States Patent and Trademark Office
Sales Receipt for Accounting Date: 02/20/2018

GARIAS	ADJ #00000001	Mailroom Dt: 04/21/2016	
	Seq No: 2	Sales Acctg Dt: 04/27/2016	11566267
	01 FC : 1599		-1650.00 OP

Document code: WFEE

United States Patent and Trademark Office
Sales Receipt for Accounting Date: 02/20/2018

GARIAS	SALE	#00000001	Mailroom Dt:	04/21/2016	11566267
		01	FC : 2551	800.00	OP
		02	FC : 2558	850.00	OP



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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www.uspto.gov

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/566,267	05/03/2011	7934460	F587	5688

34440 7590 04/13/2011
COLLEN IP
THE HOLYOKE MANHATTAN BUILDING
80 SOUTH HIGHLAND AVENUE
OSSINING, NY 10562

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment is 718 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.


If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site <http://pair.uspto.gov> for additional applicants):

Antonio Romano Moszoro, Rosario, ARGENTINA;
Bartolome Estanislao Moszoro, Rosario, ARGENTINA;

Search Notes 	Application/Control No. 11566267	Applicant(s)/Patent Under Reexamination MOSZORO ET AL.
	Examiner Christopher J Novosad	Art Unit 3641

SEARCHED			
Class	Subclass	Date	Examiner
111	Update subclasses 200, 900	03/25/2011	CJN
701	Update subclass 50	03/25/2011	CJN
111	Update subclasses 170, 174, 176, 177, 903, 904	03/25/2011	CJN
340	Update subclasses 684, 673, 674	03/25/2011	CJN
172	Update subclasses 2-7	03/25/2011	CJN
406	Update subclasses 26, 10, 12, 120, 197	03/25/2011	CJN

SEARCH NOTES		
Search Notes	Date	Examiner
EAST text search	11/06/2009	CJN

INTERFERENCE SEARCH			
Class	Subclass	Date	Examiner
111, 701, 340, 172, 406	All subclasses noted supra	03/25/2011	CJN

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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/566,267	12/04/2006	Antonio Romano Moszoro	F587	5688
34440	7590	03/28/2011	EXAMINER	
COLLEN IP THE HOLYOKE MANHATTAN BUILDING 80 SOUTH HIGHLAND AVENUE OSSINING, NY 10562			NOVOSAD, CHRISTOPHER J	
			ART UNIT	PAPER NUMBER
			3641	
			MAIL DATE	DELIVERY MODE
			03/28/2011	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

**Supplemental
Notice of Allowability**

Application No.

11/566,267

Examiner

Christopher J. Novosad

Applicant(s)

MOSZORO ET AL.

Art Unit

3641

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. This communication is responsive to a printer query dated March 10, 2011.
2. The allowed claim(s) is/are 4-8,10 and 11.
3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some* c) None of the:
- Certified copies of the priority documents have been received.
 - Certified copies of the priority documents have been received in Application No. _____.
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.


THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) hereto or 2) to Paper No./Mail Date _____.
- (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

/Christopher J. Novosad/
Primary Examiner, Art Unit 3641

Issue Classification 	Application/Control No. 11/566,267	Applicant(s)/Patent under Reexamination MOSZORO ET AL.	
	Examiner Christopher J. Novosad	Art Unit 3641	

ISSUE CLASSIFICATION										
ORIGINAL					CROSS REFERENCE(S)					
CLASS		SUBCLASS			CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)				
111		174			111	200				
INTERNATIONAL CLASSIFICATION					701	50				
A	0	1	C	7/20	406	12				
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----- (Assistant Examiner) (Date)	/Christopher J. Novosad/ Art Unit 3641 March 25, 2011 (Primary Examiner) (Date)	Total Claims Allowed: 7 <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">O.G. Print Claim(s)</td> <td style="text-align: center;">O.G. Print Fig.</td> </tr> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">1, 4</td> </tr> </table>	O.G. Print Claim(s)	O.G. Print Fig.	1	1, 4
O.G. Print Claim(s)	O.G. Print Fig.					
1	1, 4					
(Legal Instruments Examiner) (Date)						

<input type="checkbox"/> Claims renumbered in the same order as presented by applicant		<input type="checkbox"/> CPA		<input type="checkbox"/> T.D.		<input type="checkbox"/> R.1.47	
Final	Original	Final	Original	Final	Original	Final	Original
	1		31		61		91
	2		32		62		92
	3		33		63		93
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/566,267	12/04/2006	Antonio Romano Moszoro	F587	5688
34440	7590	03/03/2011	EXAMINER	
COLLEN IP THE HOLYOKE MANHATTAN BUILDING 80 SOUTH HIGHLAND AVENUE OSSINING, NY 10562			NOVOSAD, CHRISTOPHER J	
			ART UNIT	PAPER NUMBER
			3641	
			MAIL DATE	DELIVERY MODE
			03/03/2011	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Response to Rule 312 Communication	Application No.	Applicant(s)
	11/566,267	MOSZORO ET AL.
	Examiner	Art Unit
	Christopher J. Novosad	3641

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

1. The amendment filed on 25 February 2011 under 37 CFR 1.312 has been considered, and has been:
- a) entered.
 - b) entered as directed to matters of form not affecting the scope of the invention.
 - c) disapproved because the amendment was filed after the payment of the issue fee.
Any amendment filed after the date the issue fee is paid must be accompanied by a petition under 37 CFR 1.313(c)(1) and the required fee to withdraw the application from issue.
 - d) disapproved. See explanation below.
 - e) entered in part. See explanation below.

/Christopher J. Novosad/
Primary Examiner, Art Unit 3641

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail** **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
 or **Fax** (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

34440 7590 11/29/2010

COLLEN IP
 THE HOLYOKE MANHATTAN BUILDING
 80 SOUTH HIGHLAND AVENUE
 OSSINING, NY 10562

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/566,267	12/04/2006	Antonio Romano Moszoro	F587	5688

TITLE OF INVENTION: ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS HAVING INDEPENDENT UNITS ASSOCIATED TO PNEUMATIC SEED DOSING DEVICES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	02/28/2011

EXAMINER	ART UNIT	CLASS-SUBCLASS
NOVOSAD, CHRISTOPHER J	3641	111-174000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
 Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
 "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list
 (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,
 (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 Collen IP
 2 Donald J. Ranft
 3 53,501

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE _____ (B) RESIDENCE: (CITY and STATE OR COUNTRY) _____

Please check the appropriate assignee category or categories (will not be printed on the patent): Individual Corporation or other private group entity Government

4a. The following fee(s) are submitted:

Issue Fee
 Publication Fee (No small entity discount permitted)
 Advance Order - # of Copies _____

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

A check is enclosed.
 Payment by credit card. Form PTO-2038 is attached.
 The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number 03-2465 (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature *D. Ranft*
 Typed or printed name Donald J. Ranft

Date February 24, 2011
 Registration No. 53,501

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Electronic Patent Application Fee Transmittal

Application Number:	11566267
Filing Date:	04-Dec-2006
Title of Invention:	ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS HAVING INDEPENDENT UNITS ASSOCIATED TO PNEUMATIC SEED DOSING DEVICES
First Named Inventor/Applicant Name:	Antonio Romano Moszoro
Filer:	Donald J. Ranft/Mary Lou Wheeler
Attorney Docket Number:	F587

Filed as Small Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Utility Appl issue fee	2501	1	755	755
Publ. Fee- early, voluntary, or normal	1504	1	300	300

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				1055

Electronic Acknowledgement Receipt

EFS ID:	9542021
Application Number:	11566267
International Application Number:	
Confirmation Number:	5688
Title of Invention:	ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS HAVING INDEPENDENT UNITS ASSOCIATED TO PNEUMATIC SEED DOSING DEVICES
First Named Inventor/Applicant Name:	Antonio Romano Moszoro
Customer Number:	34440
Filer:	Donald J. Ranft/Mary Lou Wheeler
Filer Authorized By:	Donald J. Ranft
Attorney Docket Number:	F587
Receipt Date:	28-FEB-2011
Filing Date:	04-DEC-2006
Time Stamp:	11:41:06
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$1055
RAM confirmation Number	9851
Deposit Account	032465
Authorized User	COLLEN IP INTELLECTUAL PROPERTY LAW, PC

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	F587_IssueFeeTransmittalPri.pdf	107526 0d008cb5fd132a50edc4f0c2192ee25c63533b7f	no	1

Warnings:

Information:

2	Fee Worksheet (PTO-875)	fee-info.pdf	31849 ff5c077272b79494edef647db3da385c6b089d83	no	2
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Warnings:

Information:

Total Files Size (in bytes): 139375

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Antonio Romano Moszoro et al
Serial No. : 11566267
Conf. No. : 5688
Filed : December 4, 2006
For : ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS HAVING
INDEPENDENT UNITS ASSOCIATED TO PNEUMATIC SEED DOSING
DEVICES
Art Unit : 3641
Examiner : Christopher J. Novosad

Dated : February 25, 2011

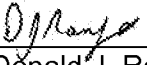
Hon. Commissioner of Patents
P. O. Box 1450
Alexandria, Va. 22313-1450

AMENDMENT AFTER ALLOWANCE

As discussed with the Examiner, Applicant submits the following:

1. Remarks
2. Revised claims

Respectfully submitted
for Applicant,

By: 
Donald J. Ranft
Reg. No. 53,501

DJR:ae
COLLEN IP
The Holyoke-Manhattan Building
80 South Highland Avenue
Ossining, New York 10562
(914) 941-5668

SHOULD ANY OTHER FEE BE REQUIRED, THE PATENT AND TRADEMARK OFFICE IS
HEREBY REQUESTED TO CHARGE SUCH FEE TO OUR DEPOSIT ACCOUNT 03-2465.

REMARKS

Claims 6 and 8 – 11 are allowed. Claims 3 and 9 are canceled.

Claim 10 is amended to refer to Claim 6 since Claim 9 is now canceled.

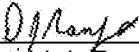
In accordance with the agreement reached with the Examiner, Claims 4, 5 and 7 are reinstated to this Application with revisions to refer to the proper claim.

Claim 11 includes the Examiner's amendment as stated in the Notice of Allowance.

Applicant believes that no new matter has been included.

Applicant believes that application as amended is now in condition for allowance and timely allowance is respectfully requested.

Respectfully submitted
for Applicant,

By: 
Donald J. Ranft
Reg. No. 53,501

CLAIMS

1. canceled

5 2.- (withdrawn) An **ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS**, according to claim 1, wherein the electro-pneumatic unit associated to the seed dosing devices is a motor suction unit.

3.- canceled

10

4.- (currently amended) An **ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS**, according to claim 4 11, wherein the electro-pneumatic unit is associated to all dosing devices having a seeding body of the seeder.

15 5.- (currently amended) An **ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS**, according to claim 4 11, wherein the electro-pneumatic unit is associated to pairs of dosing devices within the seeder.

20 6.- (previously presented) An agricultural seeding machine according to claim 11, wherein the individual control unit is individually associated to each seed dosing device within the seeder.

7.- (currently amended) The **ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS**, according to claim 4 11, wherein the general command

central unit is a voltage regulator controlling the individual control units associated to the pneumatic dosing devices in order to increase or decrease the pneumatic action they perform.

5 **8.-** (previously presented) An agricultural seeding machine according to claim 11, wherein the central command unit is an electronic microprocessor which controls the operation of the individual control units associated to the seeding dosing devices.

10 **9.-** canceled

10.- (previously presented) An agricultural seeding machine according to claim ~~9~~ 6 wherein the central command unit is an electronic microprocessor.

15 **11.-** (currently amended) An agricultural seeding machine comprising:
a minimum of one seeding body;
a minimum of one seeding dosing devices associated with each seeding body;
the seeding bodies mounted on a support frame over a chassis;
20 a central command unit;
a minimum of one individual control unit for each seeding body;
the individual control units controlling the seeding dosing devices;
the central command unit connected to an electric power source; and

the central command unit controlling the individual control units;
wherein the individual control units associated to the seed dosing
device is a motor compressor unit.

Electronic Acknowledgement Receipt

EFS ID:	9531265
Application Number:	11566267
International Application Number:	
Confirmation Number:	5688
Title of Invention:	ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS HAVING INDEPENDENT UNITS ASSOCIATED TO PNEUMATIC SEED DOSING DEVICES
First Named Inventor/Applicant Name:	Antonio Romano Moszoro
Customer Number:	34440
Filer:	Donald J. Ranft/Amy Edelstein
Filer Authorized By:	Donald J. Ranft
Attorney Docket Number:	F587
Receipt Date:	25-FEB-2011
Filing Date:	04-DEC-2006
Time Stamp:	14:38:19
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Amendment after Notice of Allowance (Rule 312)	F587_AMENDMENT.pdf	47454 <small>cd0a8724b6b32a3fb90ffca15c86829f119c8bc8</small>	no	2

Warnings:

Information:

2	Claims	F587__CLAIMS.pdf	54505 1bb331c004f2b0d1ec71eff3edf13d4ea8ebc7e3	no	3
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Warnings:

Information:

Total Files Size (in bytes):	101959
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This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

34440 7590 11/29/2010

COLLEN IP
THE HOLYOKE MANHATTAN BUILDING
80 SOUTH HIGHLAND AVENUE
OSSINING, NY 10562

EXAMINER
NOVOSAD, CHRISTOPHER J
ART UNIT 3641 PAPER NUMBER
DATE MAILED: 11/29/2010

Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.

11/566,267 12/04/2006 Antonio Romano Moszoro F587 5688

TITLE OF INVENTION: ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS HAVING INDEPENDENT UNITS ASSOCIATED TO PNEUMATIC SEED DOSING DEVICES

Table with 7 columns: APPLN. TYPE, SMALL ENTITY, ISSUE FEE DUE, PUBLICATION FEE DUE, PREV. PAID ISSUE FEE, TOTAL FEE(S) DUE, DATE DUE

nonprovisional YES \$755 \$300 \$0 \$1055 02/28/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
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www.uspto.gov

Table with columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO., EXAMINER, ART UNIT, PAPER NUMBER. Includes application numbers 11/566,267 and 34440, filing dates 12/04/2006 and 11/29/2010, inventor Antonio Romano Moszoro, examiner NOVOSAD, CHRISTOPHER J, and art unit 3641.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 210 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 210 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No. 11/566,267	Applicant(s) MOSZORO ET AL.	
Examiner Christopher J. Novosad	Art Unit 3641	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- 1. This communication is responsive to a telephone call on November 22, 2010.
- 2. The allowed claim(s) is/are 6 and 8-11.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some* c) None of the:
 - 1. Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. _____.
 - 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 - 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date _____.
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
- 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2. Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
- 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- 6. Interview Summary (PTO-413), Paper No./Mail Date _____.
- 7. Examiner's Amendment/Comment
- 8. Examiner's Statement of Reasons for Allowance
- 9. Other _____.

Art Unit: 3641

Claim 1 has been canceled.

EXAMINER'S AMENDMENT

An extension of time under 37 CFR 1.136(a) is required in order to make an examiner's amendment which places this application in condition for allowance. During a telephone conversation conducted on November 22, 2010, Mr. Donald J. Ranft, Attorney for Applicants, requested an extension of time for two MONTH(S) and authorized the Director to charge Deposit Account No. 03-2465 the required fee of \$180 for this extension (since Applicants already paid for the first month's extension (for a small entity) by debiting \$65 to Deposit Account No. 03-2465, and since the small entity fee for two months extension of time is \$245, the difference between the two being \$180) and authorized the following examiner's amendment. Should the changes and/or additions be unacceptable to applicants, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

In the claims:

In claim 11, last line, the recitation "units." has been deleted and --units; wherein the individual control unit associated to the seed dosing devices is a motor compressor unit.-- has been inserted in lieu thereof.

Since the language of claim 3 has been inserted into parent claim 11 (as a result of the amendment above), claim 3 has been canceled.

Art Unit: 3641

Withdrawn claims 2, 4, 5 and 7 have been canceled since these claims improperly depend from a canceled claim, canceled claim 1.

Comments on Allowance

Note Applicants' arguments in the "Remarks" of the amendment filed on October 29, 2010.

Any comments considered necessary by applicants must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher J. Novosad whose telephone number is 571-272-6993. The examiner can normally be reached on Monday-Thursday 5:30am-4:00pm.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Carone can be reached at 571-272-6873. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 3641

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Christopher J. Novosad/
Primary Examiner, Art Unit 3641

November 22, 2010


Search Notes 	Application/Control No. 11566267	Applicant(s)/Patent Under Reexamination MOSZORO ET AL.
	Examiner Christopher J Novosad	Art Unit 3641

SEARCHED			
Class	Subclass	Date	Examiner
111	Update subclasses 200, 900	11/22/2010	CJN
701	50	11/22/2010	CJN
111	170, 174, 176, 177, 903, 904	11/22/2010	CJN
340	684, 673, 674	11/22/2010	CJN
172	2-7	11/22/2010	CJN
406	26, 10, 12, 120, 197	11/22/2010	CJN

SEARCH NOTES		
Search Notes	Date	Examiner
EAST text search	11/06/2009	CJN

INTERFERENCE SEARCH			
Class	Subclass	Date	Examiner
111, 701, 340, 172, 406	All subclasses noted supra	11/22/2010	CJN

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Issue Classification 	Application/Control No. 11/566,267	Applicant(s)/Patent under Reexamination MOSZORO ET AL.	
	Examiner Christopher J. Novosad	Art Unit 3641	

ISSUE CLASSIFICATION										
ORIGINAL					CROSS REFERENCE(S)					
CLASS		SUBCLASS			CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)				
111		174			111	200				
INTERNATIONAL CLASSIFICATION					701	50				
A	0	1	C	7/20	406	12				
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----- (Assistant Examiner) (Date)	/Christopher J. Novosad/ Art Unit 3641 November 22, 2010 (Primary Examiner) (Date)	Total Claims Allowed: 5 <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">O.G. Print Claim(s)</td> <td style="text-align: center;">O.G. Print Fig.</td> </tr> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">1, 4</td> </tr> </table>	O.G. Print Claim(s)	O.G. Print Fig.	1	1, 4
O.G. Print Claim(s)	O.G. Print Fig.					
1	1, 4					
(Legal Instruments Examiner) (Date)						

<input type="checkbox"/> Claims renumbered in the same order as presented by applicant		<input type="checkbox"/> CPA		<input type="checkbox"/> T.D.		<input type="checkbox"/> R.1.47	
Final	Original	Final	Original	Final	Original	Final	Original
	1		31		61		91
	2		32		62		92
	3		33		63		93
	4		34		64		94
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	13		43		73		103
	14		44		74		104
	15		45		75		105
	16		46		76		106
	17		47		77		107
	18		48		78		108
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	21		51		81		111
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BIB DATA SHEET

CONFIRMATION NO. 5688

SERIAL NUMBER 11/566,267	FILING or 371(c) DATE 12/04/2006 RULE	CLASS 111	GROUP ART UNIT 3641	ATTORNEY DOCKET NO. F587	
APPLICANTS Antonio Romano Moszoro, Rosario, ARGENTINA; Bartolome Estanislao Moszoro, Rosario, ARGENTINA; ** CONTINUING DATA ***** ** FOREIGN APPLICATIONS ***** ARGENTINA 06 01 01564 04/20/2006 ** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** ** SMALL ENTITY ** 01/10/2007					
Foreign Priority claimed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 35 USC 119(a-d) conditions met <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Verified and /CHRISTOPHER J NOVOSAD/ Acknowledged _____ Examiner's Signature	<input checked="" type="checkbox"/> Met after Allowance /CJN/ _____ Initials	STATE OR COUNTRY ARGENTINA	SHEETS DRAWINGS 3	TOTAL CLAIMS 8	INDEPENDENT CLAIMS 1
ADDRESS COLLEN IP THE HOLYOKE MANHATTAN BUILDING 80 SOUTH HIGHLAND AVENUE OSSINING, NY 10562 UNITED STATES					
TITLE ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS HAVING INDEPENDENT UNITS ASSOCIATED TO PNEUMATIC SEED DOSING DEVICES					
FILING FEE RECEIVED 425	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:		<input type="checkbox"/> All Fees <input type="checkbox"/> 1.16 Fees (Filing) <input type="checkbox"/> 1.17 Fees (Processing Ext. of time) <input type="checkbox"/> 1.18 Fees (Issue) <input type="checkbox"/> Other _____ <input type="checkbox"/> Credit		

Document code: WFEE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/566,267	12/04/2006	Antonio Romano Moszoro	F587	5688
34440	7590	11/02/2010	EXAMINER	
COLLEN IP THE HOLYOKE MANHATTAN BUILDING 80 SOUTH HIGHLAND AVENUE OSSINING, NY 10562			NOVOSAD, CHRISTOPHER J	
			ART UNIT	PAPER NUMBER
			3641	
			MAIL DATE	DELIVERY MODE
			11/02/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

**Advisory Action
Before the Filing of an Appeal Brief**

Application No. 11/566,267	Applicant(s) MOSZORO ET AL.	
Examiner Christopher J. Novosad	Art Unit 3641	

--The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

THE REPLY FILED 29 October 2010 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.

1. The reply was filed after a final rejection, but prior to or on the same day as filing a Notice of Appeal. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be filed within one of the following time periods:

- a) The period for reply expires 4 months from the mailing date of the final rejection.
- b) The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.
- Examiner Note: If box 1 is checked, check either box (a) or (b). ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

NOTICE OF APPEAL

2. The Notice of Appeal was filed on _____. A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a).

AMENDMENTS

3. The proposed amendment(s) filed after a final rejection, but prior to the date of filing a brief, will not be entered because
- (a) They raise new issues that would require further consideration and/or search (see NOTE below);
- (b) They raise the issue of new matter (see NOTE below);
- (c) They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
- (d) They present additional claims without canceling a corresponding number of finally rejected claims.

NOTE: See Continuation Sheet. (See 37 CFR 1.116 and 41.33(a)).

4. The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).
5. Applicant's reply has overcome the following rejection(s): See Continuation Sheet.
6. Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).
7. For purposes of appeal, the proposed amendment(s): a) will not be entered, or b) will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.
- The status of the claim(s) is (or will be) as follows:
Claim(s) allowed: _____.
Claim(s) objected to: _____.
Claim(s) rejected: 3,6 and 8-11.
Claim(s) withdrawn from consideration: 2,4,5 and 7.

AFFIDAVIT OR OTHER EVIDENCE

8. The affidavit or other evidence filed after a final action, but before or on the date of filing a Notice of Appeal will not be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).
9. The affidavit or other evidence filed after the date of filing a Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing of a good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).
10. The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.

REQUEST FOR RECONSIDERATION/OTHER

11. The request for reconsideration has been considered but does NOT place the application in condition for allowance because: _____.
12. Note the attached Information *Disclosure Statement*(s). (PTO/SB/08) Paper No(s). _____
13. Other: _____.

/Christopher J. Novosad/
Primary Examiner, Art Unit 3641

Continuation of 3. NOTE: While Applicants' proposed amendments would overcome the rejection of claims 3, 6 and 8-11 under 25 U.S.C. 112, first and second paragraphs and the objection to the specification as failing to provide proper antecedent basis for the claimed subject matter, the proposed amendments change the scope of the claims which would require further consideration and search. Further, Applicants argument that Cresswell '920 does not claim an air seeding machine is irrelevant since Cresswell '920 still reads on the claims.

Continuation of 5. Applicant's reply has overcome the following rejection(s): the rejection of claims 3, 6 and 8-11 under 25 U.S.C. 112, first and second paragraphs and the objection to the specification as failing to provide proper antecedent basis for the claimed subject matter .


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BIB DATA SHEET
CONFIRMATION NO. 5688

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** FOREIGN APPLICATIONS ***** ARGENTINA 06 01 01564 04/20/2006						
** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** ** SMALL ENTITY ** 01/10/2007						
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CLAIMS

1. canceled

5 2.- (withdrawn) An **ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS**, according to claim 1, wherein the electro-pneumatic unit associated to the seed dosing devices is a motor suction unit.

10 3.- (previously presented) An agricultural seeding machine according to claim 11, wherein the individual control unit associated to the seed dosing devices is a motor compressor unit.

15 4.- (withdrawn) An **ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS**, according to claim 1, wherein the electro-pneumatic unit is associated to all dosing devices having a seeding body of the seeder.

20 5.- (withdrawn) An **ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS**, according to claim 1, wherein the electro-pneumatic unit is associated to pairs of dosing devices within the seeder.

 6.- (previously presented) An agricultural seeding machine according to claim 11, wherein the individual control unit is individually associated to each seed dosing device within the seeder.

7.- (withdrawn) The **ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS**, according to claim 1, wherein the general command central unit is a voltage regulator controlling the individual control units associated to the pneumatic dosing devices in order to increase or decrease the pneumatic action they perform.

8.- (previously presented) An agricultural seeding machine according to claim 11, wherein the central command unit is an electronic microprocessor which controls the operation of the individual control units associated to the seeding dosing devices.

9.- (previously presented) An agricultural seeding machine according to claim 6 wherein the individual control unit is a motor compressor unit.

10.- (previously presented) An agricultural seeding machine according to claim 9 wherein the central command unit is an electronic microprocessor.

11.- (currently amended) An agricultural seeding machine comprising:
a minimum of one seeding body;
a minimum of ~~two~~ one seeding dosing devices associated with each seeding body;
the seeding bodies mounted on a support frame over a chassis;
a central command unit;
a minimum of one individual control unit for each seeding body;

the individual control units controlling the seeding dosing devices;
the central ~~control~~ command unit connected to an electric power
receiver source; and
the central ~~control~~ command unit controlling the individual control
units.

5

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Moszoro Antonio Romano
Serial No. : 11566267
Conf. No. : 5688
Filed : December 4, 2006
For : Electropneumatic Installation Applied To Seeders Having Independent Units...
Art Unit : 3641
Examiner : Christopher J Novosad

Dated : October 28, 2010

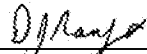
Hon. Commissioner of Patents
P. O. Box 1450
Alexandria, Va. 22313-1450

RESPONSE/AMENDMENT

In response to the final Office Action mailed on June 29, 2010, Applicant submits the following:

1. remarks;
2. claims;
3. one-month extension fee

Respectfully submitted
for Applicant,

By: 

Donald J. Ranft
Reg. No. 53,501

DJR:ae
COLLEN IP
The Holyoke-Manhattan Building
80 South Highland Avenue
Ossining, New York 10562
(914) 941-5668

SHOULD ANY OTHER FEE BE REQUIRED, THE PATENT AND TRADEMARK OFFICE IS
HEREBY REQUESTED TO CHARGE SUCH FEE TO OUR DEPOSIT ACCOUNT 03-2465.

REMARKS

Claims 2 – 11 are pending. Claims 2, 4, 5 and 7 are withdrawn. Claim 11 is currently amended.

Claim 11 is amended to resolve the Examiner's objection to the specification.

Claim Rejections – 35 USC 112

Claim 11 is currently amended to: claim a minimum of one seeding dosing device associated with each seeding body; replace “central control unit” to be “central command unit;” and replace “power receiver” with “power source.”

Claim Rejections – 35 USC 102

As stated in the referenced prior art and as acknowledged by the Examiner, “Cresswell '920 discloses an agricultural air seeding machine.” Applicant does not claim an air seeding machine.

The air seeding machine disclosed by Cresswell uses air to carry and distribute the seed. As stated in Cresswell “In an air seeder, agricultural materials such as seed, fertilizer, and chemicals are dispensed from respective holding tanks into an air stream that carries the materials through a distribution network...” (col. 1, lines 10-13). The seeding dosing devices claimed by Applicant is not the same as the seed metering devices (103, 104 and 104A) disclosed in Cresswell. The seed metering devices disclosed in Cresswell require an air distribution network in which “a fan operative to provide an air flow to an air stream, wherein the air stream passes through a distribution network to carry agricultural materials for distribution across a width of a seeding implement.” (col. 4, lines 56-59). Applicant is not claiming the use of air to distribute seed.

With respect to Claim 3, Cresswell discloses fan units (113A and 113B). These fan units are not motor compressor units as claimed (and disclosed) by Applicant. The motor compressor units claimed by Applicant are compressors, not fans and the associated distribution network for the compressed air does not distribute seed. Rather, it distributes air to control operation of seeding devices. As stated in the specification, this control function of compressed air can be replaced with

air vacuum or pneumatic pressure.

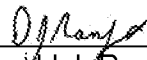
With respect to Claims 6 and 8, the same arguments stated above concerning Applicant's claimed seeding dosing devices vs. Cresswell's seed metering devices applies to these claims.

With respect to Claim 9, as stated above, the fan control units disclosed in Cresswell are not motor compressor units as claimed by Applicant.

Applicant believes that no new matter has been included in the claims.

Applicant believes that application is now in condition for allowance and timely allowance is respectfully requested.

Respectfully submitted
for Applicant,

By: 
Donald J. Ranft
Reg. No. 53,501

CLAIMS

1. canceled

5 2.- (withdrawn) An **ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS**, according to claim 1, wherein the electro-pneumatic unit associated to the seed dosing devices is a motor suction unit.

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- a minimum of ~~two~~ one seeding dosing devices associated with each seeding body;
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- a central command unit;
- a minimum of one individual control unit for each seeding body;

the individual control units controlling the seeding dosing devices;
the central ~~control~~ command unit connected to an electric power
receiver source; and
the central ~~control~~ command unit controlling the individual control
units.

5

Electronic Patent Application Fee Transmittal

Application Number:	11566267
Filing Date:	04-Dec-2006
Title of Invention:	ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS HAVING INDEPENDENT UNITS ASSOCIATED TO PNEUMATIC SEED DOSING DEVICES
First Named Inventor/Applicant Name:	Antonio Romano Moszoro
Filer:	Donald J. Ranft
Attorney Docket Number:	F587

Filed as Small Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Extension - 1 month with \$0 paid	2251	1	65	65

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Total in USD (\$)				65

Electronic Acknowledgement Receipt

EFS ID:	8722569
Application Number:	11566267
International Application Number:	
Confirmation Number:	5688
Title of Invention:	ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS HAVING INDEPENDENT UNITS ASSOCIATED TO PNEUMATIC SEED DOSING DEVICES
First Named Inventor/Applicant Name:	Antonio Romano Moszoro
Customer Number:	34440
Filer:	Donald J. Ranft
Filer Authorized By:	
Attorney Docket Number:	F587
Receipt Date:	29-OCT-2010
Filing Date:	04-DEC-2006
Time Stamp:	11:49:37
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$65
RAM confirmation Number	10745
Deposit Account	032465
Authorized User	COLLEN IP INTELLECTUAL PROPERTY LAW, PC

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Applicant Arguments/Remarks Made in an Amendment	F587_AMENDMENT.pdf	66031 b9341f1509af898d68ff0424323291eb0800a346	no	3

Warnings:

Information:

2	Claims	F587_CLAIMS.pdf	54670 80e9471860d3829f32b6c8cef26f293dd2504273	no	3
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Warnings:

Information:

3	Fee Worksheet (PTO-875)	fee-info.pdf	30231 09c65290ce212741cb9567595e52719a9d0f5621	no	2
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Warnings:

Information:

Total Files Size (in bytes): 150932

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 11/566,267	Filing Date 12/04/2006	<input type="checkbox"/> To be Mailed
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APPLICATION AS FILED – PART I			OTHER THAN SMALL ENTITY				
	(Column 1)	(Column 2)	SMALL ENTITY <input checked="" type="checkbox"/>	OR			
FOR	NUMBER FILED	NUMBER EXTRA	RATE (\$)	FEE (\$)	OR	RATE (\$)	FEE (\$)
<input type="checkbox"/> BASIC FEE <small>(37 CFR 1.16(a), (b), or (c))</small>	N/A	N/A	N/A			N/A	
<input type="checkbox"/> SEARCH FEE <small>(37 CFR 1.16(k), (l), or (m))</small>	N/A	N/A	N/A			N/A	
<input type="checkbox"/> EXAMINATION FEE <small>(37 CFR 1.16(o), (p), or (q))</small>	N/A	N/A	N/A			N/A	
TOTAL CLAIMS <small>(37 CFR 1.16(i))</small>	minus 20 =	*	X \$ =		OR	X \$ =	
INDEPENDENT CLAIMS <small>(37 CFR 1.16(h))</small>	minus 3 =	*	X \$ =			X \$ =	
<input type="checkbox"/> APPLICATION SIZE FEE <small>(37 CFR 1.16(s))</small>	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						
<input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENT <small>(37 CFR 1.16(j))</small>							
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	

APPLICATION AS AMENDED – PART II					OTHER THAN SMALL ENTITY				
	(Column 1)	(Column 2)	(Column 3)		SMALL ENTITY	OR			
AMENDMENT	10/29/2010	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	OR	RATE (\$)	ADDITIONAL FEE (\$)
	Total <small>(37 CFR 1.16(i))</small>	* 10	Minus ** 20	= 0	X \$26 =	0	OR	X \$ =	
	Independent <small>(37 CFR 1.16(h))</small>	* 1	Minus *** 3	= 0	X \$110 =	0	OR	X \$ =	
	<input type="checkbox"/> Application Size Fee <small>(37 CFR 1.16(s))</small>								
	<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <small>(37 CFR 1.16(j))</small>						OR		
					TOTAL ADD'L FEE	0	OR	TOTAL ADD'L FEE	

	(Column 1)	(Column 2)	(Column 3)						
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	OR	RATE (\$)	ADDITIONAL FEE (\$)
	Total <small>(37 CFR 1.16(i))</small>	*	Minus **	=	X \$ =		OR	X \$ =	
	Independent <small>(37 CFR 1.16(h))</small>	*	Minus ***	=	X \$ =		OR	X \$ =	
	<input type="checkbox"/> Application Size Fee <small>(37 CFR 1.16(s))</small>								
	<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <small>(37 CFR 1.16(j))</small>						OR		
					TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
 ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
 *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
 The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

Legal Instrument Examiner:
 /SONYA HILLIARD/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**
 If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



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			ART UNIT	PAPER NUMBER
			3641	
			MAIL DATE	DELIVERY MODE
			06/29/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Art Unit: 3641

DETAILED ACTION

Claim 1 has been canceled.

Specification

The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required:

In new claim 11, line 9, the recitation “electric power *receiver*” (emphasis added) has no support or clear antecedent basis in the written description of the specification. Instead, the specification (page 9, line 2), refers to an “electric power *source* (not shown)” (emphasis added), rather than an “electric power receiver”. Correction to claim 11, however, may be made to avoid this objection, e.g., by deleting “receiver” and inserting --source-- in lieu thereof.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 3, 6 and 8-11 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. New independent claim 11 contains subject matter which was not described in the specification in such a way as to reasonably convey to one

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skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Specifically, in new claim 11, lines 3 and 4, there is no support in the original disclosure for the specific recitation of “a minimum of two seeding dosing devices associated with each seeding body”, and is therefore considered to be new matter.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 3, 6 and 8-11 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In new independent claim 11, line 9, there is no proper antecedent basis or previous mention in the claim for the recitation of “the central control unit”. However, correction to claim 11 in this respect may be made to avoid this rejection, e.g., by amending “the central control unit” instead to --the central command unit-- (as initially recited in line 6 of this claim).

Claim Rejections - 35 USC § 102

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 3, 6 and 8-11 are rejected under 35 U.S.C. 102(b) as being anticipated by Cresswell 6,584,920.

With respect to new, independent claim 11, Cresswell '920 discloses an agricultural air seeding machine comprising:

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at least one seeding body (seeder 110, Fig. 3);

at least two seeding dosing devices (first, second and third seed and fertilizer metering devices, 103, 104 and 104A, respectively, Fig. 3) associated with each seeding body 110;

the seeding bodies 110 mounted on a support frame (the unnumbered horizontal member shown immediately below tanks 101, 102, 102A, Fig. 3) over a chassis (unnumbered structure connected to the wheels of the seeding body, Fig. 3);

a central command unit (microprocessor 120, Fig. 3);

a minimum of one individual control unit (first, second and third seed metering device control units 105, 106 and 106A, respectively, Fig. 3; col. 12, lines 36-40) for each seeding body 110;

the individual control units (105, 106 and 106A, Fig. 3) controlling the seeding dosing devices (seed metering devices 103, 104, 104A, respectively, in Fig. 3; col. 12, lines 36-40);

the central control (command) unit (microprocessor 120) connected to an electrical power source (not shown, but inherently necessary for operation of the electronic microprocessor 120);
and

the central control (command) unit controlling the individual control units (105, 106 and 106A in Fig. 3; col. 12, lines 36-40 and 54-63).

With respect to claim 3, Cresswell '920 discloses that each individual control unit (105, 106 and 106A, and fan control units 113A and 113B) associated to the seed dosing devices (seed metering devices 103, 104, 104A, respectively, in Fig. 3) "is a motor compressor unit" (electric motor-driven fans 112A, 112B; col. 12, lines 27-31).

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As to claim 6, Cresswell '920 discloses that the individual control unit (105, 106 and 106A) is individually associated to each seed dosing device (seed metering devices 103, 104, 104A, respectively, in Fig. 3) within the seeder.

Regarding claim 8, Cresswell '920 discloses that the central command unit is an electronic microprocessor 120 which controls the operation of the individual control units (105, 106 and 106A; Fig. 3 and col. 12, lines 36-40 and 54-63) associated to the seeding dosing devices (seed metering devices 103, 104, 104A, respectively, in Fig. 3).

With respect to claims 9 and 10, Cresswell '920 discloses that the individual control unit (105, 106 and 106A, and fan control units 113A and 113B) "is a motor compressor unit" (electric motor-driven fans 112A, 112B; col. 12, lines 27-31), as recited in claim 9, and that "the central control unit is an electronic microprocessor" 120, as recited in claim 10.

Response to Arguments

Applicants' arguments have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Applicants' amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO**

Art Unit: 3641

MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher J. Novosad whose telephone number is 571-272-6993. The examiner can normally be reached on Monday-Thursday 5:30am-4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Carone can be reached at 571-272-6873. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 3641

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Christopher J. Novosad/
Primary Examiner, Art Unit 3641

June 26, 2010

Notice of References Cited	Application/Control No. 11/566,267	Applicant(s)/Patent Under Reexamination MOSZORO ET AL.	
	Examiner Christopher J. Novosad	Art Unit 3641	Page 1 of 1

U.S. PATENT DOCUMENTS

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A US-6,584,920	07-2003	Cresswell, Mark	111/174
	B US-			
	C US-			
	D US-			
	E US-			
	F US-			
	G US-			
	H US-			
	I US-			
	J US-			
	K US-			
	L US-			
	M US-			


FOREIGN PATENT DOCUMENTS

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N				
	O				
	P				
	Q				
	R				
	S				
	T				

NON-PATENT DOCUMENTS

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)				
	U				
	V				
	W				
	X				

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Search Notes 	Application/Control No. 11566267	Applicant(s)/Patent Under Reexamination MOSZORO ET AL.
	Examiner Christopher J Novosad	Art Unit 3641

SEARCHED			
Class	Subclass	Date	Examiner
111	Update subclasses 200, 900	06/26/2010	CJN

SEARCH NOTES		
Search Notes	Date	Examiner
EAST text search	11/06/2009	CJN

INTERFERENCE SEARCH			
Class	Subclass	Date	Examiner

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 www.uspto.gov

BIB DATA SHEET
CONFIRMATION NO. 5688

SERIAL NUMBER	FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.	
11/566,267	12/04/2006	111	3641	F587	
APPLICANTS Antonio Romano Moszoro, Rosario, ARGENTINA; Bartolome Estanislao Moszoro, Rosario, ARGENTINA; ** CONTINUING DATA ***** ** FOREIGN APPLICATIONS ***** ARGENTINA 06 01 01564 04/20/2006 ** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** ** SMALL ENTITY ** 01/10/2007					
Foreign Priority claimed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 35 USC 119(a-d) conditions met <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Verified and /CHRISTOPHER J NOVOSAD/ Acknowledged Examiner's Signature	<input type="checkbox"/> Met after Allowance Initials	STATE OR COUNTRY ARGENTINA	SHEETS DRAWINGS 3	TOTAL CLAIMS 8	INDEPENDENT CLAIMS 1
ADDRESS COLLEN IP THE HOLYOKE MANHATTAN BUILDING 80 SOUTH HIGHLAND AVENUE OSSINING, NY 10562 UNITED STATES					
TITLE ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS HAVING INDEPENDENT UNITS ASSOCIATED TO PNEUMATIC SEED DOSING DEVICES					
FILING FEE RECEIVED 425	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:		<input type="checkbox"/> All Fees <input type="checkbox"/> 1.16 Fees (Filing) <input type="checkbox"/> 1.17 Fees (Processing Ext. of time) <input type="checkbox"/> 1.18 Fees (Issue) <input type="checkbox"/> Other _____ <input type="checkbox"/> Credit		

ABSTRACT

Installation to be applied to self-propelled or tow-type agricultural seeders that comprises a general command central unit (5) fed from an electric power source and controls a corresponding individual control unit (10) that regulates the operation of the electro-pneumatic unit (6) associated to the seed dosing devices within the seeder to perform the pneumatic action. ~~Said electro-pneumatic~~ Electro-pneumatic unit may be a motor suction or a motor compressor unit. The invention envisages the association of these units to all the dosing devices in a seeding body of the seeder, to pairs of dosing units in the seeder, or else, on an individual basis, to each seed dosing device of the seeder.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Antonio Romano Moszoro
Serial No. : 11566267
Filed : December 4, 2006
For : Electropneumatic Installation Applied To Seeders Having Independent Units...
Art Unit : 3641
Examiner : Christopher J. Novosad

Dated : May 10, 2010

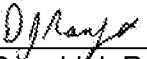
Hon. Commissioner of Patents
P. O. Box 1450
Alexandria, Va. 22313-1450

RESPONSE/AMENDMENT

In response to the Office Action mailed on November 9, 2009, Applicant submits the following:

1. Remarks
2. Amended Claims
3. Amended Abstract
4. 3 month extension of time

Respectfully submitted
for Applicant,

By: 
Donald J. Ranft
Reg. No. 53,501

DJR:ae
COLLEN IP
The Holyoke-Manhattan Building
80 South Highland Avenue
Ossining, New York 10562
(914) 941-5668

SHOULD ANY OTHER FEE BE REQUIRED, THE PATENT AND TRADEMARK OFFICE IS
HEREBY REQUESTED TO CHARGE SUCH FEE TO OUR DEPOSIT ACCOUNT 03-2465.

REMARKS

Claims 1 – 10 are pending. Claims 2, 4, 5 and 7 are withdrawn. Claims 1, 3, 6, 8, 9, and 10 were rejected. Claim 1 is canceled. Claims 3, 6, 8, 9 and 10 are currently amended. Claim 11 is new.

Abstract is revised to remove the word "Said."

Claim Rejections – 35 U.S.C. 112

Since claim 1 is canceled these rejections are moot.

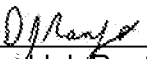
Claim Rejections – 35 U.S.C. 102

Claim 1 is canceled. Independent Claim 11 is added. Claims 3, 6, 8, 9 and 10 are amended to depend directly or indirectly from Claim 11. This further distinguishes Applicant claims from the referenced prior art.

Applicant believes that no new matter has been included.

Applicant believes that application is now in condition for allowance and timely allowance is respectfully requested.

Respectfully submitted
for Applicant,

By: 
Donald J. Ranft
Reg. No. 53,501

CLAIMS

1. canceled

5 2.- (withdrawn) An **ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS**, according to claim 1, wherein the electro-pneumatic unit associated to the seed dosing devices is a motor suction unit.

10 3.- (currently amended) ~~The **ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS**~~, An agricultural seeding machine according to claim 4 11, wherein the electro-pneumatic individual control unit associated to the seed dosing devices is a motor compressor unit.

15 4.- (withdrawn) An **ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS**, according to claim 1, wherein the electro-pneumatic unit is associated to all dosing devices having a seeding body of the seeder.

20 5.- (withdrawn) An **ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS**, according to claim 1, wherein the electro-pneumatic unit is associated to pairs of dosing devices within the seeder.

 6.- (currently amended) ~~An **ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS**~~, An agricultural seeding machine according to claim 4

11, wherein the ~~electro-pneumatic~~ individual control unit is individually associated to each seed dosing device within the seeder.

7.- (withdrawn) The **ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS**, according to claim 1, wherein the general command central unit is a voltage regulator controlling the individual control units associated to the pneumatic dosing devices in order to increase or decrease the pneumatic action they perform.

8.- (currently amended) The ~~**ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS**~~, An agricultural seeding machine according to claim 4 11, wherein the ~~general~~ central command ~~central~~ unit is an electronic microprocessor ~~associated to remote monitoring units having the microprocessor 43,~~ which controls the operation of the individual control units associated to the pneumatic seeding dosing devices ~~in order to increase or decrease the pneumatic action they perform.~~

9.- (currently amended) An ~~**ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS**~~ An agricultural seeding machine according to claim 6 wherein the ~~electro-pneumatic~~ individual control unit is a motor compressor unit.

10.- (currently amended) An ~~**ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS**~~ An agricultural seeding machine according to claim 9 wherein the ~~general~~ central command ~~central~~ unit is an electronic microprocessor.

11.- (new) An agricultural seeding machine comprising:

a minimum of one seeding body;

a minimum of two seeding dosing devices associated with each

5 seeding body;

the seeding bodies mounted on a support frame over a chassis;

a central command unit;

a minimum of one individual control unit for each seeding body;

the individual control units controlling the seeding dosing devices;

10 the central control unit connected to an electric power receiver; and

the central control unit controlling the individual control units.

Electronic Patent Application Fee Transmittal

Application Number:	11566267
Filing Date:	04-Dec-2006
Title of Invention:	ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS HAVING INDEPENDENT UNITS ASSOCIATED TO PNEUMATIC SEED DOSING DEVICES
First Named Inventor/Applicant Name:	Antonio Romano Moszoro
Filer:	Donald J. Ranft
Attorney Docket Number:	F587

Filed as Small Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Extension - 3 months with \$0 paid	2253	1	555	555

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Total in USD (\$)				555

Electronic Acknowledgement Receipt

EFS ID:	7577510
Application Number:	11566267
International Application Number:	
Confirmation Number:	5688
Title of Invention:	ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS HAVING INDEPENDENT UNITS ASSOCIATED TO PNEUMATIC SEED DOSING DEVICES
First Named Inventor/Applicant Name:	Antonio Romano Moszoro
Customer Number:	34440
Filer:	Donald J. Ranft/Amy Edelstein
Filer Authorized By:	Donald J. Ranft
Attorney Docket Number:	F587
Receipt Date:	10-MAY-2010
Filing Date:	04-DEC-2006
Time Stamp:	16:01:39
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$555
RAM confirmation Number	2435
Deposit Account	032465
Authorized User	COLLEN IP INTELLECTUAL PROPERTY LAW, PC

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

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Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Abstract	F587_ABSTRACT.pdf	45308 b389cc33f5cd26be893f5b75514c68bb3a85bf67	no	1

Warnings:

Information:

2	Applicant Arguments/Remarks Made in an Amendment	F587_COVER.pdf	38103 a7db6d46bb6b6866981562b72608f8ac91461c40	no	2
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Warnings:

Information:

3	Claims	F587_CLAIMS.pdf	56657 3829eb9d29f1ecdb453f98e674a0c19bdbbbf76c	no	3
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Warnings:

Information:

4	Fee Worksheet (PTO-875)	fee-info.pdf	30221 759054d450310ae18e292f34ba84f294436abd15	no	2
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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 11/566,267	Filing Date 12/04/2006	<input type="checkbox"/> To be Mailed
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APPLICATION AS FILED – PART I			OTHER THAN SMALL ENTITY				
	(Column 1)	(Column 2)	SMALL ENTITY <input checked="" type="checkbox"/>	OR			
FOR	NUMBER FILED	NUMBER EXTRA	RATE (\$)	FEE (\$)	OR	RATE (\$)	FEE (\$)
<input type="checkbox"/> BASIC FEE <small>(37 CFR 1.16(a), (b), or (c))</small>	N/A	N/A	N/A			N/A	
<input type="checkbox"/> SEARCH FEE <small>(37 CFR 1.16(k), (l), or (m))</small>	N/A	N/A	N/A			N/A	
<input type="checkbox"/> EXAMINATION FEE <small>(37 CFR 1.16(o), (p), or (q))</small>	N/A	N/A	N/A			N/A	
TOTAL CLAIMS <small>(37 CFR 1.16(i))</small>	minus 20 =	*	X \$ =		OR	X \$ =	
INDEPENDENT CLAIMS <small>(37 CFR 1.16(h))</small>	minus 3 =	*	X \$ =			X \$ =	
<input type="checkbox"/> APPLICATION SIZE FEE <small>(37 CFR 1.16(s))</small>	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						
<input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENT <small>(37 CFR 1.16(j))</small>							
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	

APPLICATION AS AMENDED – PART II					OTHER THAN SMALL ENTITY				
	(Column 1)	(Column 2)	(Column 3)		SMALL ENTITY	OR			
AMENDMENT	05/10/2010	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	OR	RATE (\$)	ADDITIONAL FEE (\$)
	Total <small>(37 CFR 1.16(i))</small>	* 10	Minus ** 20	= 0	X \$26 =	0		X \$ =	
	Independent <small>(37 CFR 1.16(h))</small>	* 1	Minus *** 3	= 0	X \$110 =	0		X \$ =	
	<input type="checkbox"/> Application Size Fee <small>(37 CFR 1.16(s))</small>								
	<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <small>(37 CFR 1.16(j))</small>						OR		
					TOTAL ADD'L FEE	0		TOTAL ADD'L FEE	

	(Column 1)	(Column 2)	(Column 3)		SMALL ENTITY	OR			
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	OR	RATE (\$)	ADDITIONAL FEE (\$)
	Total <small>(37 CFR 1.16(i))</small>	*	Minus **	=	X \$ =			X \$ =	
	Independent <small>(37 CFR 1.16(h))</small>	*	Minus ***	=	X \$ =			X \$ =	
	<input type="checkbox"/> Application Size Fee <small>(37 CFR 1.16(s))</small>								
	<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <small>(37 CFR 1.16(j))</small>						OR		
					TOTAL ADD'L FEE			TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
 ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
 *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

Legal Instrument Examiner:
 /SONYA HILLIARD/

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/566,267	12/04/2006	Antonio Romano Moszoro	F587	5688
34440	7590	11/09/2009	EXAMINER	
COLLEN IP THE HOLYOKE MANHATTAN BUILDING 80 SOUTH HIGHLAND AVENUE OSSINING, NY 10562			NOVOSAD, CHRISTOPHER J	
			ART UNIT	PAPER NUMBER
			3641	
			MAIL DATE	DELIVERY MODE
			11/09/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No. 11/566,267	Applicant(s) MOSZORO ET AL.	
Examiner Christopher J. Novosad	Art Unit 3641	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 01 October 2009.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-10 is/are pending in the application.
4a) Of the above claim(s) 2,4,5 and 7 is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1,3,6 and 8-10 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date _____.
- 5) Notice of Informal Patent Application
- 6) Other: _____.

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DETAILED ACTION

Election/Restrictions

Applicants' election without traverse of Group A, Species III, claims 6, 9 and 10; Group B, Species II, claims 8 and 10; and Group C, Species II, claims 3 and 9 in the reply filed on October 1, 2009 is acknowledged.

Accordingly, claims 2, 4, 5 and 7 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to nonelected species, there being no allowable generic or linking claim.

Therefore, an action on the merits of claims 1, 3, 6 and 8-10 follows:

Specification

The abstract of the disclosure is objected to because it contains legal language, specifically "Said" in line 5. Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1, 3, 6 and 8-10 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claims contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains,

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or with which it is most nearly connected, to make and/or use the invention. Specifically, Fig. 5 shows a general command unit (5) attached to remote control unit (13) rather than to an individual control unit (10), so it is unclear from the disclosure as to how “a general command central unit (5) [is] fed from an electric power source that controls an individual control unit (10) which regulates the operation of the electro-pneumatic unit (6) associated to the seed dosing devices of the seeder, in order to perform the pneumatic action” as recited in claim 1, since this is contradictory to Fig. 5 which shows a general command unit (5) attached to remote control unit (13) rather than to an individual control unit (10).

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1, 3, 6 and 8-10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The recitation “tow-type” in claim 1, lines 3 and 4 is indefinite since it is unclear as to exactly what “-type” is supposed to be.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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Claims 1, 3, 6 and 8-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Meyer 6,935,256 B1.

In so far as the claims can be understood in view of the rejection under 35 U.S.C. 112, first paragraph, and in view of the European Search Report in EP reference 1,847,167 A1, which claims priority to Argentina application 060101564, see the disclosure in the abstract, claims, figures, and particularly the disclosure in col. 4, lines 3-32 and in col. 6, lines 26-67 of Meyer 6,935,256 B1.

Claims 1, 3, 6 and 8-10 are rejected under 35 U.S.C. 102(b) as being anticipated by German reference 19837757 A1.

In so far as the claims can be understood in view of the rejection under 35 U.S.C. 112, first paragraph, and in view of the European Search Report in EP reference 1,847,167 A1, which claims priority to Argentina application 060101564, see the disclosure in the abstract, claims, figures, and particularly the disclosure in col. 2, lines 6-18 and 50-68; and in col. 3, lines 18-36 of German reference 19837757 A1.

It is to be noted that, even though German reference 19837757 A1 was able to be accessed by the WEST search software database used by the Examiner, due to quirks in the WEST search software database, no copy of the German reference 19837757 A1 was able to be furnished with this Office Action. However, since European Search Report in EP reference 1,847,167 A1 claims priority to Argentina application 060101564, Applicants should be aware of German reference 19837757 A1 and able to access German reference 19837757 A1.

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Claims 1, 3, 6 and 8-10 are rejected under 35 U.S.C. 102(b) as being anticipated by European reference 1504642 A1 (note that US 2005/0028713 A1 to McCartney is a patent family member of European reference 1504642 A1).

In so far as the claims can be understood in view of the rejection under 35 U.S.C. 112, first paragraph, and in view of the European Search Report in EP reference 1,847,167 A1, which claims priority to Argentina application 060101564, see the disclosure in the abstract, claims, figures, and particularly the disclosure in col. 3, paragraph 13 and in col. 4, paragraph 15 of European reference 1504642 A1 (note that US 2005/0028713 A1 to McCartney is a patent family member of European reference 1504642 A1).

It is to be noted that, even though European reference 1504642 A1 was able to be accessed by the WEST search software database used by the Examiner, due to quirks in the WEST search software database, no copy of the European reference 1504642 A1 was able to be furnished with this Office Action. However, since European Search Report in EP reference 1,847,167 A1 claims priority to Argentina application 060101564, Applicants should be aware of European reference 1504642 A1 and able to access European reference 1504642 A1. It is to be further noted that European reference 1504642 A1 has a patent family member of US 2005/0028713 A1 to McCartney.

Claims 1, 3, 6 and 8-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Hagen et al. 2005/028714 A1.

In so far as the claims can be understood in view of the rejection under 35 U.S.C. 112, first paragraph, and in view of the European Search Report in EP reference 1,847,167 A1, which

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claims priority to Argentina application 060101564, see the disclosure in the abstract, claims, figures, and particularly the disclosure in page 1, paragraph 12 of Hagen et al. 2005/028714 A1.

Claims 1, 3, 6 and 8-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Habert et al. 6,892,909 B1.

In so far as the claims can be understood in view of the rejection under 35 U.S.C. 112, first paragraph, and in view of the European Search Report in EP reference 1,847,167 A1, which claims priority to Argentina application 060101564, see the disclosure in the abstract, claims, figures, and particularly the disclosure in col. 5, lines 21-37 of Habert et al. 6,892,909 B1.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher J. Novosad whose telephone number is 571-272-6993. The examiner can normally be reached on Monday-Thursday 5:30am-4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Carone can be reached at 571-272-6873. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Christopher J. Novosad/
Primary Examiner, Art Unit 3641

November 6, 2009

Notice of References Cited	Application/Control No. 11/566,267	Applicant(s)/Patent Under Reexamination MOSZORO ET AL.	
	Examiner Christopher J. Novosad	Art Unit 3641	Page 1 of 1

U.S. PATENT DOCUMENTS

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A US-6,935,256	08-2005	Meyer, Bradley John	111/174
*	B US-2005/0028713 A1	02-2005	McCartney, Scott Charles	111/174
*	C US-2005/0028714 A1	02-2005	Hagen et al.	111/174
*	D US-6,892,909	05-2005	Hebert et al.	222/637
	E US-			
	F US-			
	G US-			
	H US-			
	I US-			
	J US-			
	K US-			
	L US-			
	M US-			

FOREIGN PATENT DOCUMENTS

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
*	N DE 19837757 A1	02-2000	Germany	PASTOORS, DIETER	-----
	O EP 1847167 A1	10-2007	European Patent	MOSZORO et al.	-----
*	P EP 1504642 A1	02-2005	European Patent	MCCARTNEY S C	-----
	Q				
	R				
	S				
	T				

NON-PATENT DOCUMENTS

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)				
	U				
	V				
	W				
	X				

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

(19)



(11)

EP 1 847 167 A1

(12)

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(30) Priority: **20.04.2006 AR P060101564**

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(54) **Electropneumatic installation applied to seeders having independent units associated to pneumatic seed dosing devices**

(57) Installation to be applied to self-propelled or tow-type agricultural seeders that comprises a general command central unit (5) fed from an electric power source and controls a corresponding individual control unit (10) that regulates the operation of the electro-pneumatic unit (6) associated to the seed dosing devices within the seed-

er to perform the pneumatic action. Said electro-pneumatic unit may be a motor suction or a motor compressor unit. The invention envisages the association of these units to all the dosing devices in a seeding body of the seeder, to pairs of dosing units in the seeder, or else, on an individual basis, to each seed dosing device of the seeder.

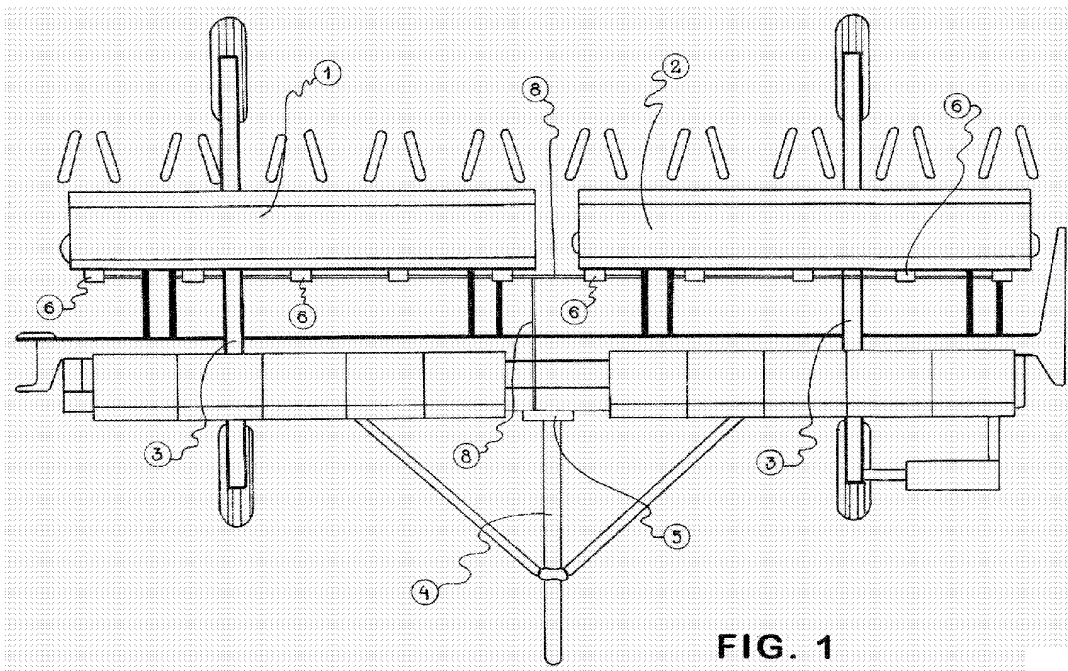


FIG. 1

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Description

[0001] The main object of present invention is an electro-pneumatic installation applied to seeders, having individual units connected to pneumatic seed dosing devices, said units being driven by an electric programmed control circuit, thus enabling a more simple and direct work, at a lower installation and maintenance cost when compared to conventional hydraulically operated pneumatic seeders at presently known.

[0002] Specifically, this invention covers a novel electro-pneumatic installation specially conceived to be applied to self-propelled or tow-type agricultural seeders.

[0003] The novelty lies on the fact that the invented installation includes a plurality of motor suction or motor compressor units that may be driven by an electric, pneumatic or hydraulic motor, each of which operates in connection to at least one respective pneumatic dosing device which dispenses the seeds to be sowed.

[0004] The object of each of the aforesaid motor compressors or motor suction units is to generate the suction, vacuum or pneumatic pressure required by the associated dosing device for its operation. These are electrical drive units fed with direct current from a continuous voltage unit.

[0005] The invented installation can be equipped with a central unit wherefrom the operation of said motor compressors or motor suction units is commanded and controlled on an electronic basis.

PRIOR ART

[0006] As it is widely revealed, pneumatic seeders known at present use an hydraulic equipment that generates pneumatic pressure or vacuum for an integral operation thereof. These are complex and expensive equipment units with certain power since they must ensure the vacuum or pneumatic pressure in each of the seed dispensing-dosing devices that the machine is provided with in order to hold them up as a rotating part expels them in order.

[0007] In order to perform the functional purpose stated above, these known equipment units use hydraulic, mechanical and pneumatic elements, including fluid-tight conduits for the circulation of the several fluids.

[0008] Specifically, in the cases where a seeder is towed by an agricultural tractor, a cardan is used to impart power from the tractor's power take-off, a hydraulic pump is actuated from said cardan to control the operation of a hydraulic motor that actuates a vacuum generating turbine or compressor.

[0009] This type of hydraulic installation, as is already known, necessarily requires specific conduits for fluid circulation, with the insertion of oil coolers, filters, flow and pressure regulating valves, a storage tank, and so on.

[0010] There is a significant pneumatic circuit with trunk sections and fluid-tight bypass outlets towards each of the aforesaid seed dosing-dispensing devices, which

stretches out from said vacuum generating turbine.

[0011] It should be noted then that in all these known seeders with their seed pneumatic dosing-dispensing devices, use of compression or vacuum fluid circulating from a central lung or from a machine general conduit is made.

[0012] The turbine generating such vacuum or pressure is moved through a hydraulic motor that the seeder hydraulic circuit is provided with, wherein the aforesaid hydraulic pump actuated from the tractor power take-off is also included.

[0013] Briefly, we may say that all these known installations are based on the generation of vacuum or pressure from a tow tractor power take-off, for this purpose complex mechanical and hydraulic systems requiring a hydraulic pump, an oil tank, articulated cardanic shafts, pressure regulators, flow regulators, a hydraulic motor, multiple hoses and hydraulic piping for fluid circulation, are used.

[0014] These are expensive installations requiring a great deal of maintenance in order to ensure the correct operation of all its member parts.

[0015] Many parts subject to wear and requiring periodic cleaning and replacement, e.g. oil and air filters, are used.

[0016] The required vacuum or pressure is obtained by means of complex movement systems.

[0017] For connection with the tractor power take-off, they use multiple cardanic shafts that also require maintenance and this fact causes it to be highly unsafe by reason of the multiple parts subject to wear being used. It is also highly unsafe for workers who operate the seeder machine.

[0018] The overall weight that this equipment exerts on the machine, as well as the number of parts subject to strokes, breaks and wear, is also relevant.

[0019] The known problems encountered of these machines when vacuum suction or pressure must be maintained in all its dosing devices, even when the speed decreases at the head of each batch, are also highlighted.

[0020] The greater the number of furrows covered by the seeder, the worse the drawbacks encountered, because the length of all the fluid-tight conduits must be longer, thus requiring a more powerful and larger size turbine, a fact that increases safety issues among the workers manipulating said machine.

[0021] The weather factor must also be mentioned, mainly when fluid viscosity must be maintained in low-temperature areas.

NOVELTY OF THE INVENTION - ADVANTAGES - MAIN OBJECT

[0022] The drawbacks briefly mentioned above are clearly overcome with the electro-pneumatic installation of the present invention, the special feature of which is the incorporation of a respective motor suction or motor compressor device adjacent to each dosing unit that pro-

vides the pneumatic pressure or vacuum required for its regular operation.

[0023] These motor suction or motor compressor units can be controlled from the tractor's cabin through an electric or electronic command and operation installation, operating on an individual basis over each pneumatic seed dosing device that the machine is provided with.

[0024] Thus when the installation is started, each motor suction or motor compressor unit generates the vacuum or pressure required by each pneumatic dosing device to which it is associated. When the machine stops, said devices do not necessarily stop since their operation does not depend on the forward movement of the machine or on the movement speed thereof.

[0025] If we compare this installation with that of the aforesaid known seeders, the following advantages may be mentioned:

- a) Mounting simplicity, adjacent to each pneumatic dosing device;
- b) Lower overall weight of the equipment, practically exerting no influence on the seeder's total weight;
- c) Minimal moving means making the equipment safe;
- d) Less time required for mounting the sowing system during machine manufacture.
- e) Minimum down time for maintenance tasks;
- f) Economy in time and maintenance expenses since there are no oil filters, leak-proof conduits and piping or other hydraulic elements and accessories combined with a piping network for the distribution of pneumatic fluid;
- g) The aforesaid problems related to the tow tractor movement (batch heads) disappear since the presence of a large sized turbine the movement of which depends on the tractor rpm is deleted at source.
- h) Possibility of maintaining the vacuum generating suction, even if the machine is halted;
- i) Lower total power required to obtain the desired purpose, implying a significant economy in fuel.
- j) All pneumatic fluid conduits and hoses are eliminated at source;
- k) All hydraulic hoses, the hydraulic reservoir, radiator, filters, flow and pressure regulator, etc. are eliminated;
- l) Possibility of easily regulating the operating pneumatic pressure in each dosing device.
- m) Radical simplification of seeder operating system, for the benefit of the manufacturer and the user in respect of costs, features and use.

BRIEF DESCRIPTION OF THE DRAWINGS

[0026] In order to embody the advantages briefly described herein, to which many others may be added by users and experts in the art and to facilitate the understanding of constructive, constitutive and functional features of the invented electro-pneumatic installation ap-

plied to a seeder, an example of a preferred embodiment illustrated on a schematic basis and not to a predetermined scale, is described on the enclosed sheets, expressly making clear that, as it is precisely an example, the allocation of a limitative or exclusive character, as regards the protection scope of this invention, is not applicable, but rather a merely explanatory and illustrative intention of the basic conception on which the same is based.

Figure 1 is a schematic plan view representing a tow type seeder provided with an electro-pneumatic installation such as the one covered by the present invention.

Figure 2 is also a plan view similar to the previous figure, showing in this case one of the possible motor suction or motor compressor arrangements that integrate the invented electro-pneumatic installation.

Figure 3 is also a plan view similar to the previous figure, in this case showing one of the possible motor suction or motor compressor arrangements integrating the invented electro-pneumatic installation.

Figure 4 is a schematic diagram representing the basic electric circuit suitable to be used for the motor suction or motor compressor command integrating the invented installation.

Figure 5 is a schematic diagram representing another electric circuit suitable for the motor suction or motor compressor command integrating the invented installation.

[0027] It is clarified that, in all figures, equal reference numbers and characters are in correspondence with equal or constitutive parts or elements in the assembly, according to the example chosen to explain the invented electro-pneumatic installation applied to seeders.

DETAILED DESCRIPTION OF A PREFERRED EXAMPLE

[0028] As may be seen in Figure 1, the electro-pneumatic installation referred to in the present invention is suitable for being applied on a tow type seeder such as the one that is schematically represented, of the type comprising seeding bodies 1 and 2 mounted on a support frame defined over a chassis -3-, wherefrom a drawbar 4 projects for its connection and coupling to the tow tractor.

[0029] As previously explained, the installation comprises a command central unit 5 linked to an electric power source (not shown), intended to control the operation of units 6, generating the pneumatic current, vacuum or pressure, arranged one by one adjacent to each pneumatic seed dosing device to provide the pneumatic fluid used by each dosing device to achieve the ejection of the seeds discharged during the machine forward movement in order.

[0030] In the figures it is noted that all said motor suc-

tion or motor compressor units 6 are maintained integrated to the same electric circuit 8 stretching out from said command central unit 5, through which the respective electric motors generating the individual pneumatic action performed by each unit are fed.

[0031] The command arising from said central unit 5 may be individual and independent for each unit 6, or else, it may be collective in order to control the operation of all units on a simultaneous basis.

[0032] It is pointed out that based on the same constructive and functional conception, this invention envisages that the aforesaid electro-pneumatic units 6 may be either electric motor compressors, capable of generating the pneumatic pressure required by a specified seed dosing device model - 7; or the same units 6 may be motor suction units, capable of producing vacuum within the body of another type of seed dosing device 7 wherein suction or vacuum is required.

[0033] Looking now at Figure 2, the case wherein electro-pneumatic units 6 are used per each pair of seed dosing devices is illustrated, since the size of the seeder or the type of grain sowed, or the distance among furrows, allows so.

[0034] Figure 3 shows the case wherein one electro-pneumatic unit 6 is used for each seeding body 1 and 2, this being another feasible constructive option within the same operation principle defined by the invented installation.

[0035] If we now see Figure 4, we may understand the design of the command electric circuit wherein the central unit 5 is a tension regulator 9 having an electric circuit through which the individual action of each control unit 10 individually associated to each unit 6 is controlled, regulating the flow and suction pressure through a motor suction unit when vacuum suction takes place, or else, regulating the flow and pneumatic pressure through a motor compressor.

[0036] The circuit includes a general interrupter means 11 envisaged for those cases wherein disconnection of the whole installation, the above mentioned electronic regulator 9, a corresponding interrupter per furrow 12 sandwiched before each control unit per furrow 10 controlling the movement of each motor suction or motor compressor unit 6, is required.

[0037] Figure 5 shows the case wherein the above mentioned electronic command central unit 5 has a microprocessor programmed through a "specific software" to control the movement of each motor suction or motor compressor unit 6, that monitors seeds falling into the furrow, on the basis of the information provided by remote control units 13.

DOSING DEVICES, to be applied to self-propelled or tow-type agricultural seeder machines, comprising a general command central unit (5) fed from an electric power source that controls an individual control unit (10) which regulates the operation of the electro-pneumatic unit (6) associated to the seed dosing devices of the seeder, in order to perform the pneumatic action.

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2. - An ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS, according to claim 1, wherein the electro-pneumatic unit associated to the seed dosing devices is a motor suction unit.

3. - The ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS, according to claim 1, wherein the electro-pneumatic unit associated to the seed dosing devices is a motor compressor unit.

4. - An ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS, according to claim 1, wherein the electro-pneumatic unit is associated to all dosing devices having a seeding body of the seeder.

5. - An ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS, according to claim 1, wherein the electro-pneumatic unit is associated to pairs of dosing devices within the seeder.

6. - An ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS, according to claim 1, wherein the electro-pneumatic unit is individually associated to each seed dosing device within the seeder.

7. - The ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS, according to claim 1, wherein the general command central unit is a voltage regulator controlling the individual control units associated to the pneumatic dosing devices in order to increase or decrease the pneumatic action they perform.

8. - The ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS, according to claim 1, wherein the general command central unit is an electronic microprocessor associated to remote monitoring units having the microprocessor 13, which controls the operation of the individual control units associated to the pneumatic dosing devices in order to increase or decrease the pneumatic action they perform.

Claims

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- 1. ELECTRO-PNEUMATIC INSTALLATION APPLIED TO SEEDERS, WITH INDEPENDENT UNITS ASSOCIATED WITH PNEUMATIC SEED

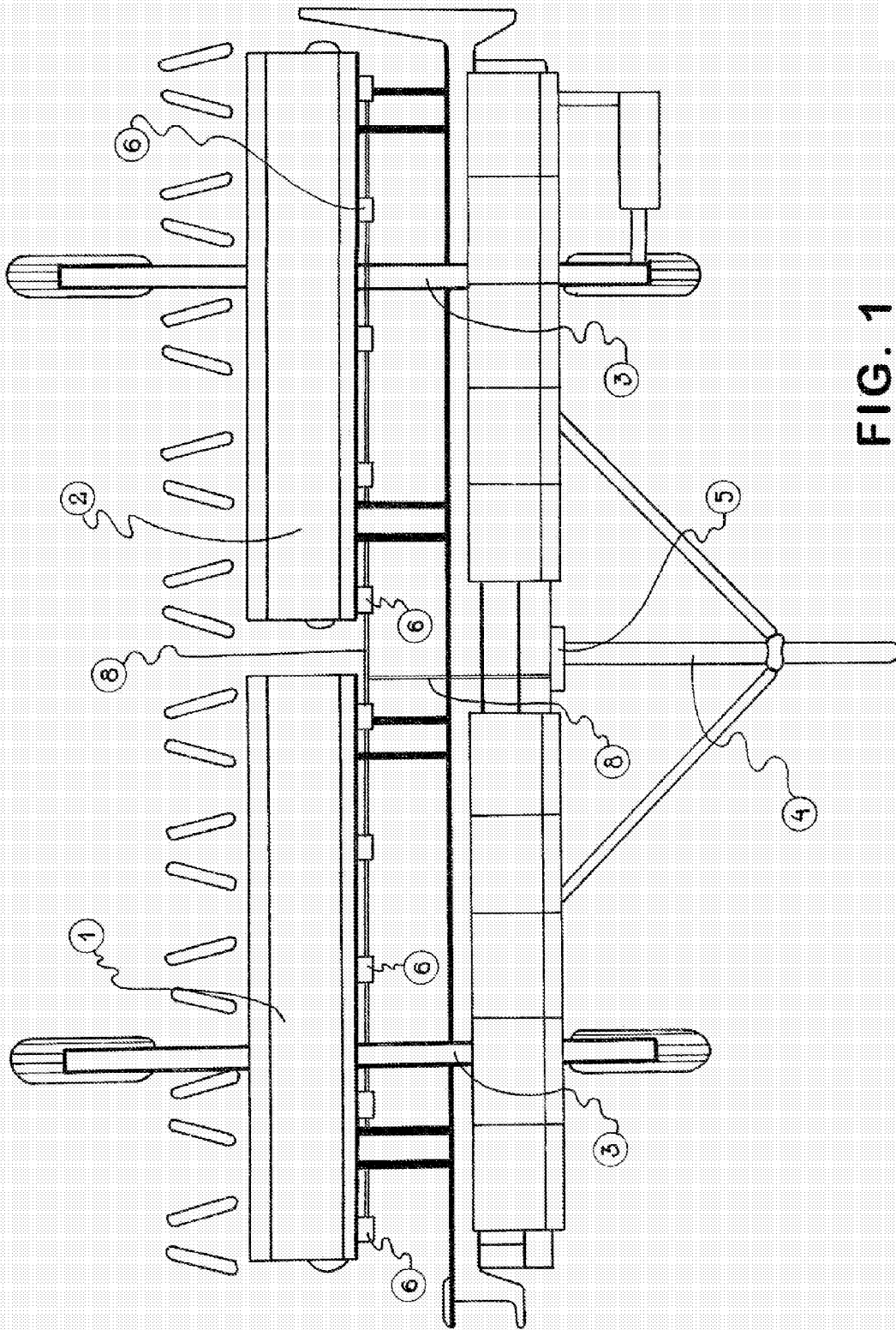


FIG. 1

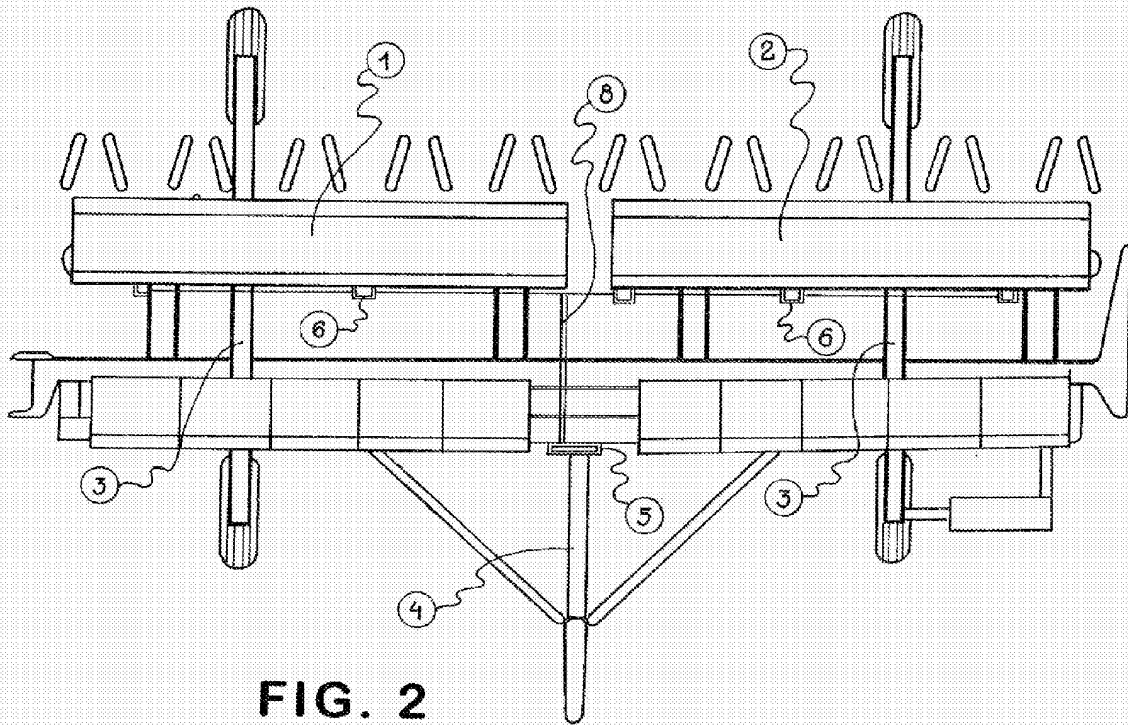


FIG. 2

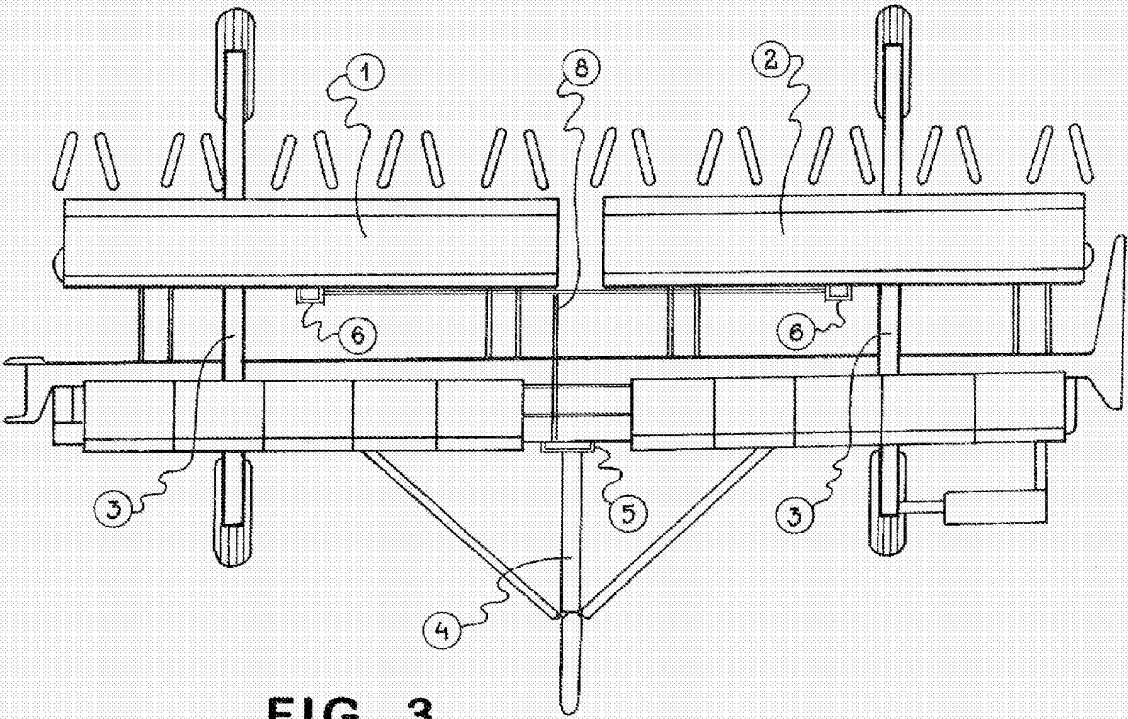


FIG. 3

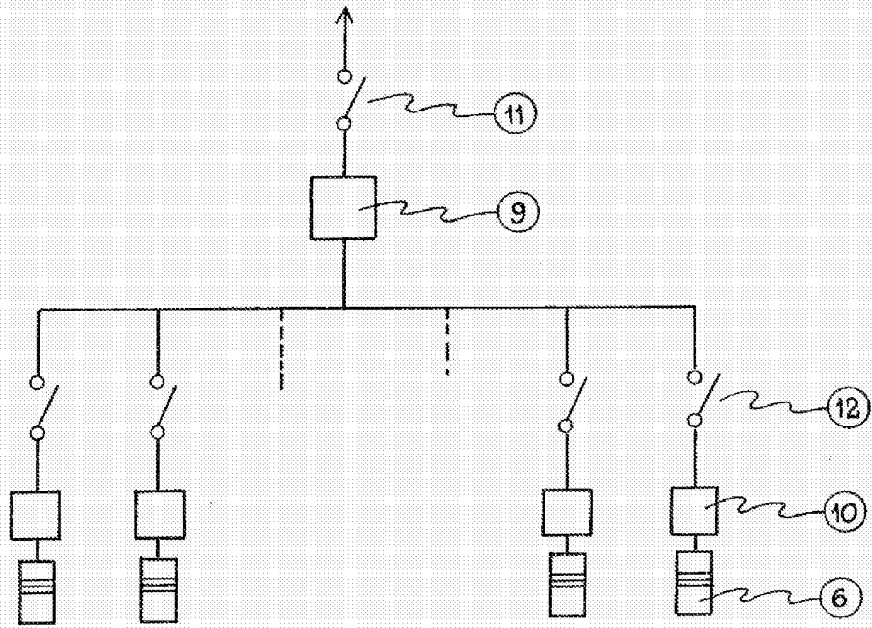


FIG. 4

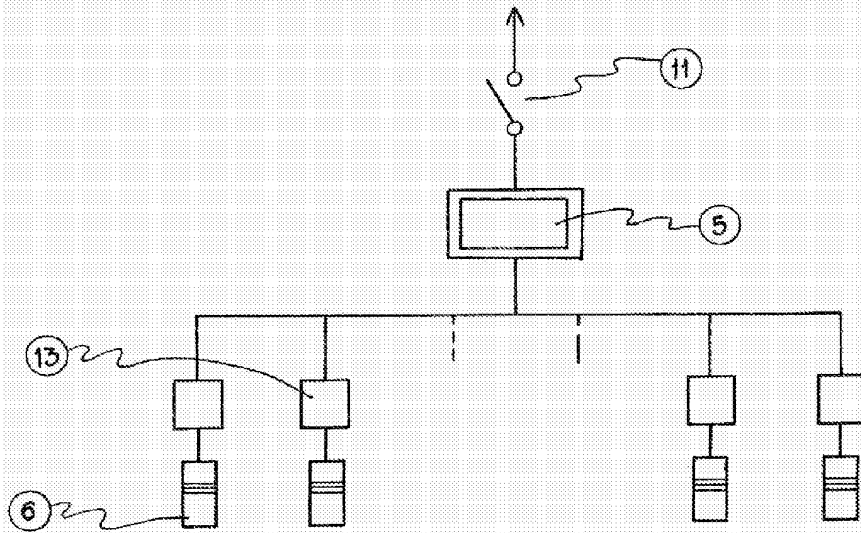


FIG. 5

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 07 10 1624

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

22-06-2007

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			BR P10501176 A	10-01-2006
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			US 2005028713 A1	10-02-2005

US 2005028714	A1	10-02-2005	NONE	

US 6892909	B1	17-05-2005	NONE	

PUB-NO: EP001847167A1
DOCUMENT-IDENTIFIER: EP 1847167 A1
TITLE: Electropneumatic
installation applied to
seeders having independent
units associated to
pneumatic seed dosing
devices
PUBN-DATE: October 24, 2007

INVENTOR-INFORMATION:

NAME	COUNTRY
MOSZORO, ANTONIO ROMANO	AR
MOSZORO, BARTOLOME ESTANISLAO	AR

ASSIGNEE-INFORMATION:

NAME	COUNTRY
MOSZORO ANTONIO ROMANO	AR
MOSZORO BARTOLOME ESTANISLAO	AR

APPL-NO: EP07101624

APPL-DATE: February 2, 2007

PRIORITY-DATA: ARP060101564A (April 20, 2006)

INT-CL (IPC): A01C007/08

EUR-CL (EPC): A01C007/08

ABSTRACT:

CHG DATE=20071026 STATUS=O>Installation to be applied to self-propelled or tow-type agricultural seeders that comprises a general command central unit (5) fed from an electric power source and controls a corresponding individual control unit (10) that regulates the operation of the electro-pneumatic unit (6) associated to the seed dosing devices within the seeder to perform the pneumatic action. Said electro-pneumatic unit may be a motor suction or a motor compressor unit. The invention envisages the association of these units to all the dosing devices in a seeding body of the seeder, to pairs of dosing units in the seeder, or else, on an individual basis, to each seed dosing device of the seeder.



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BIB DATA SHEET


CONFIRMATION NO. 5688

SERIAL NUMBER 11/566,267	FILING or 371(c) DATE 12/04/2006 RULE	CLASS 111	GROUP ART UNIT 3641	ATTORNEY DOCKET NO. F587	
APPLICANTS Antonio Romano Moszoro, Rosario, ARGENTINA; Bartolome Estanislao Moszoro, Rosario, ARGENTINA;					
** CONTINUING DATA *****					
** FOREIGN APPLICATIONS ***** ARGENTINA 06 01 01564 04/20/2006					
** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** ** SMALL ENTITY ** 01/10/2007					
Foreign Priority claimed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 35 USC 119(a-d) conditions met <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Verified and /CHRISTOPHER J NOVOSAD/ Acknowledged _____ Examiner's Signature	<input type="checkbox"/> Met after Allowance Initials _____	STATE OR COUNTRY ARGENTINA	SHEETS DRAWINGS 3	TOTAL CLAIMS 8	INDEPENDENT CLAIMS 1
ADDRESS COLLEN IP THE HOLYOKE MANHATTAN BUILDING 80 SOUTH HIGHLAND AVENUE OSSINING, NY 10562 UNITED STATES					
TITLE ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS HAVING INDEPENDENT UNITS ASSOCIATED TO PNEUMATIC SEED DOSING DEVICES					
FILING FEE RECEIVED 425	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:		<input type="checkbox"/> All Fees <input type="checkbox"/> 1.16 Fees (Filing) <input type="checkbox"/> 1.17 Fees (Processing Ext. of time) <input type="checkbox"/> 1.18 Fees (Issue) <input type="checkbox"/> Other _____ <input type="checkbox"/> Credit		

EAST Search History**EAST Search History (Prior Art)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	62	((command or central or control) adj3 (unit or member)) or (controller or microprocessor or computer) with ((electro-pneumatic) or pneumatic or electrical or electronic) with (planter or seeder or planting)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/06 11:50

11/ 6/ 09 12:00:04 PM**C:\ Documents and Settings\ CNovosad\ My Documents\ EAST\ workspaces
\ 11566267wsp.wsp**

Search Notes 	Application/Control No. 11566267	Applicant(s)/Patent Under Reexamination MOSZORO ET AL.
	Examiner Christopher J Novosad	Art Unit 3641

SEARCHED			
Class	Subclass	Date	Examiner
111	200, 900	11/06/2009	CJN

SEARCH NOTES		
Search Notes	Date	Examiner
EAST text search	11/06/2009	CJN

INTERFERENCE SEARCH			
Class	Subclass	Date	Examiner

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Antonio Romano Moszoro
Serial No. : 11566267
Filed : December 4, 2006
For : Electropneumatic Installation Applied To Seeders Having Independent Units...

Art Unit : 3641
Examiner : Christopher J. Novosad

Dated : October 1, 2009

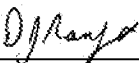
Hon. Commissioner of Patents
P. O. Box 1450
Alexandria, Va. 22313-1450

RESPONSE/AMENDMENT

In response to the Office Action mailed on April 1, 2009, Applicant submits the following:

1. Amended claims
2. Remarks
3. Three-month extension

Respectfully submitted
for Applicant,

By: 

Donald J. Ranft
Reg. No. 53,501

DJR:ae
COLLEN IP
The Holyoke-Manhattan Building
80 South Highland Avenue
Ossining, New York 10562
(914) 941-5668

SHOULD ANY OTHER FEE BE REQUIRED, THE PATENT AND TRADEMARK OFFICE IS HEREBY REQUESTED TO CHARGE SUCH FEE TO OUR DEPOSIT ACCOUNT 03-2465.

REMARKS

Claims 1 – 8 are pending. Claims 9 and 10 are added by amendment.

Applicant elects without traverse:

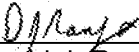
Group A – Species III, the electro-pneumatic unit being individually associated to each seed closing device within the seeder; Claims 6, 9 and 10

Group B – Species II, the general command central unit being an electronic microprocessor; Claims 8 and 10

Group C – Species II; the electro-pneumatic unit associated to the seed closing devices being a compressor unit; Claims 3 and 9

Applicant believes that application is now in condition for allowance and timely allowance is respectfully requested.

Respectfully submitted
for Applicant,

By: 
Donald J. Ranft
Reg. No. 53,501

CLAIMS

1. (previously presented) **ELECTRO-PNEUMATIC INSTALLATION APPLIED TO SEEDERS, WITH INDEPENDENT UNITS ASSOCIATED WITH PNEUMATIC SEED DOSING DEVICES**, to be applied to self-propelled or tow-type agricultural seeder machines, comprising a general command central unit (5) fed from an electric power source that controls an individual control unit (10) which regulates the operation of the electro-pneumatic unit (6) associated to the seed dosing devices of the seeder, in order to perform the pneumatic action.

2.- (previously presented) An **ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS**, according to claim 1, wherein the electro-pneumatic unit associated to the seed dosing devices is a motor suction unit.

3.- (previously presented) The **ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS**, according to claim 1, wherein the electro-pneumatic unit associated to the seed dosing devices is a motor compressor unit.

4.- (previously presented) An **ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS**, according to claim 1, wherein the electro-pneumatic unit is associated to all dosing devices having a seeding body of the seeder.

5.- (previously presented) An ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS, according to claim 1, wherein the electro-pneumatic unit is associated to pairs of dosing devices within the seeder.

6.- (previously presented) An ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS, according to claim 1, wherein the electro-pneumatic unit is individually associated to each seed dosing device within the seeder.

7.- (previously presented) The ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS, according to claim 1, wherein the general command central unit is a voltage regulator controlling the individual control units associated to the pneumatic dosing devices in order to increase or decrease the pneumatic action they perform.

8.- (previously presented) The ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS, according to claim 1, wherein the general command central unit is an electronic microprocessor associated to remote monitoring units having the microprocessor 13, which controls the operation of the individual control units associated to the pneumatic dosing devices in order to increase or decrease the pneumatic action they perform.

9.- (new) An **ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS** according to claim 6 wherein the electro-pneumatic unit is a motor compressor unit.

10. -(new) An **ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS** according to claim 9 wherein the general command central unit is an electronic microprocessor.

Electronic Patent Application Fee Transmittal

Application Number:	11566267
Filing Date:	04-Dec-2006
Title of Invention:	ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS HAVING INDEPENDENT UNITS ASSOCIATED TO PNEUMATIC SEED DOSING DEVICES
First Named Inventor/Applicant Name:	Antonio Romano Moszoro
Filer:	Donald J. Ranft/Amy Edelstein
Attorney Docket Number:	F587

Filed as Small Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Extension - 3 months with \$0 paid	2253	1	555	555

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Total in USD (\$)				555

Electronic Acknowledgement Receipt

EFS ID:	6185578
Application Number:	11566267
International Application Number:	
Confirmation Number:	5688
Title of Invention:	ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS HAVING INDEPENDENT UNITS ASSOCIATED TO PNEUMATIC SEED DOSING DEVICES
First Named Inventor/Applicant Name:	Antonio Romano Moszoro
Customer Number:	34440
Filer:	Donald J. Ranft/Amy Edelstein
Filer Authorized By:	Donald J. Ranft
Attorney Docket Number:	F587
Receipt Date:	01-OCT-2009
Filing Date:	04-DEC-2006
Time Stamp:	15:19:02
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$555
RAM confirmation Number	1578
Deposit Account	032465
Authorized User	COLLEN IP INTELLECTUAL PROPERTY LAW, PC

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

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Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Response to Election / Restriction Filed	F587_REMARKS.pdf	47227 70359929f649dd5d3ed165b4bdcc82b75d3a71f8	no	2

Warnings:

Information:

2	Claims	F587_CLAIMS.pdf	22364 88dd636fe0d64dd80aa1a51733817c5c6b67b686	no	3
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Warnings:

Information:

3	Fee Worksheet (PTO-875)	fee-info.pdf	30256 4f574dd3ade34f0c527e5c938e1794e447db40f5	no	2
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Warnings:

Information:

Total Files Size (in bytes):

99847

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 11/566,267	Filing Date 12/04/2006	<input type="checkbox"/> To be Mailed
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APPLICATION AS FILED – PART I			OTHER THAN SMALL ENTITY			
	(Column 1)	(Column 2)	SMALL ENTITY <input checked="" type="checkbox"/>	OR		
FOR	NUMBER FILED	NUMBER EXTRA	RATE (\$)	FEE (\$)	RATE (\$)	FEE (\$)
<input type="checkbox"/> BASIC FEE <small>(37 CFR 1.16(a), (b), or (c))</small>	N/A	N/A	N/A		N/A	
<input type="checkbox"/> SEARCH FEE <small>(37 CFR 1.16(k), (l), or (m))</small>	N/A	N/A	N/A		N/A	
<input type="checkbox"/> EXAMINATION FEE <small>(37 CFR 1.16(o), (p), or (q))</small>	N/A	N/A	N/A		N/A	
TOTAL CLAIMS <small>(37 CFR 1.16(i))</small>	minus 20 =	*	X \$ =	OR	X \$ =	
INDEPENDENT CLAIMS <small>(37 CFR 1.16(h))</small>	minus 3 =	*	X \$ =		X \$ =	
<input type="checkbox"/> APPLICATION SIZE FEE <small>(37 CFR 1.16(s))</small>	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).					
<input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENT <small>(37 CFR 1.16(j))</small>						
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL		TOTAL	

APPLICATION AS AMENDED – PART II					OTHER THAN SMALL ENTITY			
	(Column 1)	(Column 2)	(Column 3)					
AMENDMENT	10/01/2009	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	RATE (\$)	ADDITIONAL FEE (\$)
	Total <small>(37 CFR 1.16(i))</small>	* 10	Minus ** 20	=	X \$ =		OR	X \$ =
	Independent <small>(37 CFR 1.16(h))</small>	* 1	Minus *** 3	=	X \$ =		OR	X \$ =
	<input type="checkbox"/> Application Size Fee <small>(37 CFR 1.16(s))</small>						OR	
	<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <small>(37 CFR 1.16(j))</small>						OR	
					TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE

	(Column 1)	(Column 2)	(Column 3)					
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	RATE (\$)	ADDITIONAL FEE (\$)
	Total <small>(37 CFR 1.16(i))</small>	*	Minus **	=	X \$ =		OR	X \$ =
	Independent <small>(37 CFR 1.16(h))</small>	*	Minus ***	=	X \$ =		OR	X \$ =
	<input type="checkbox"/> Application Size Fee <small>(37 CFR 1.16(s))</small>						OR	
	<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <small>(37 CFR 1.16(j))</small>						OR	
					TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
 ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
 *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
 The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

Legal Instrument Examiner:
 //TERRANCE LAWRENCE//

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**
 If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Document code: WFEE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/566,267	12/04/2006	Antonio Romano Moszoro	F587	5688
34440	7590	04/01/2009	EXAMINER	
COLLEN IP THE HOLYOKE MANHATTAN BUILDING 80 SOUTH HIGHLAND AVENUE OSSINING, NY 10562			NOVOSAD, CHRISTOPHER J	
			ART UNIT	PAPER NUMBER
			3641	
			MAIL DATE	DELIVERY MODE
			04/01/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 11/566,267	Applicant(s) MOSZORO ET AL.	
	Examiner Christopher J. Novosad	Art Unit 3641	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on ____.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-8 is/are pending in the application.
4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) Claim(s) ____ is/are allowed.
- 6) Claim(s) ____ is/are rejected.
- 7) Claim(s) ____ is/are objected to.
- 8) Claim(s) 1-8 are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on ____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. ____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

Art Unit: 3641

DETAILED ACTION

Election/Restrictions

This application contains claims directed to the following three patentably distinct groups of species:

Group A:

Species I, the electro-pneumatic unit being associated to all closing devices having a seeding body of the seeder;

Species II, the electro-pneumatic unit being associated to pairs of closing devices within the seeder;

Species III, the electro-pneumatic unit being individually associated to each seed closing device within the seeder.

Group B:

Species I, the general command central unit being a voltage regulator;

Species II, the general command central unit being an electronic microprocessor.

Group C:

Species I, the electro-pneumatic unit associated to the seed closing devices being a motor suction unit;

Species II, the electro-pneumatic unit associated to the seed closing devices being a compressor unit.

Art Unit: 3641

The species are independent or distinct because claims to the different species recite the mutually exclusive characteristics of such species. In addition, these species are not obvious variants of each other based on the current record.

Applicants are required under 35 U.S.C. 121 to elect a single disclosed species from each of Groups A, B and C above for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claim 1 is generic.

There is an examination and search burden for these patentably distinct species due to their mutually exclusive characteristics. The species require a different field of search (e.g., searching different classes/subclasses or electronic resources, or employing different search queries); and/or the prior art applicable to one species would not likely be applicable to another species; and/or the species are likely to raise different non-prior art issues under 35 U.S.C. 101 and/or 35 U.S.C. 112, first paragraph.

Applicants are advised that the reply to this requirement to be complete must include (i) an election of a species to be examined from each of Groups A, B and C even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected species from each of Groups A, B and C, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

The election of the species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the election of species requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be

Art Unit: 3641

considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected species.

Should applicants traverse on the ground that the species of each group are not patentably distinct, applicants should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the species unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other species.

Upon the allowance of a generic claim, applicants will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141.

Applicants are reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher J. Novosad whose telephone number is 571-272-6993. The examiner can normally be reached on Monday-Thursday 5:30am-4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Carone can be reached at 571-272-6873. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 3641

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Christopher J. Novosad/
Primary Examiner, Art Unit 3641

March 28, 2009



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
 United States Patent and Trademark Office
 Address: COMMISSIONER FOR PATENTS
 P.O. Box 1450
 Alexandria, Virginia 22313-1450
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CONFIRMATION NO. 5688

SERIAL NUMBER 11/566,267	FILING or 371(c) DATE 12/04/2006 RULE	CLASS 111	GROUP ART UNIT 3641	ATTORNEY DOCKET NO. F587	
APPLICANTS Antonio Romano Moszoro, Rosario, ARGENTINA; Bartolome Estanislao Moszoro, Rosario, ARGENTINA; ** CONTINUING DATA ***** ** FOREIGN APPLICATIONS ***** ARGENTINA 06 01 01564 04/20/2006 ** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** ** SMALL ENTITY ** 01/10/2007					
Foreign Priority claimed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 35 USC 119(a-d) conditions met <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Verified and /CHRISTOPHER J NOVOSAD/ Acknowledged _____ Examiner's Signature	<input type="checkbox"/> Met after Allowance _____ Initials	STATE OR COUNTRY ARGENTINA	SHEETS DRAWINGS 3	TOTAL CLAIMS 8	INDEPENDENT CLAIMS 1
ADDRESS COLLEN IP THE HOLYOKE MANHATTAN BUILDING 80 SOUTH HIGHLAND AVENUE OSSINING, NY 10562 UNITED STATES					
TITLE ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS HAVING INDEPENDENT UNITS ASSOCIATED TO PNEUMATIC SEED DOSING DEVICES					
FILING FEE RECEIVED 425	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:		<input type="checkbox"/> All Fees <input type="checkbox"/> 1.16 Fees (Filing) <input type="checkbox"/> 1.17 Fees (Processing Ext. of time) <input type="checkbox"/> 1.18 Fees (Issue) <input type="checkbox"/> Other _____ <input type="checkbox"/> Credit		



APPLICATION NUMBER	FILING OR 371(c) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/566,267	12/04/2006	Antonio Romano Moszoro	F587

CONFIRMATION NO. 5688

34440
COLLEN IP
THE HOLYOKE MANHATTAN BUILDING
80 SOUTH HIGHLAND AVENUE
OSSINING, NY10562

Title: ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS HAVING INDEPENDENT UNITS ASSOCIATED TO PNEUMATIC SEED DOSING DEVICES

Publication No. US-2007-0266918-A1

Publication Date: 11/22/2007

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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
11/566,267	12/04/2006	3671	425	F587	3	8	1

CONFIRMATION NO. 5688

34440
COLLEN IP
THE HOLYOKE MANHATTAN BUILDING
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FILING RECEIPT

Date Mailed: 01/10/2007

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Applicant(s)

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Bartolome Estanislao Moszoro, Rosario,
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Domestic Priority data as claimed by applicant

Foreign Applications

ARGENTINA 06 01 01564 04/20/2006

If Required, Foreign Filing License Granted: 01/10/2007

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US11/566,267**

Projected Publication Date: 10/25/2007

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS HAVING
INDEPENDENT UNITS ASSOCIATED TO PNEUMATIC SEED DOSING DEVICES

Preliminary Class

111

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12-08-06

FTW

ATTORNEY DOCKET NO.: F587

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Antonio Romano Moszoro et al
Serial No. : 11/566,267
Filed : December 4, 2006
For : Electropneumatic Installation Applied to Seeders Having Independent Units
Associated to Pneumatic Seed Dosing Devices
Art Unit :
Examiner :
Dated : December 7, 2006

Hon. Commissioner of Patents
P. O. Box 1450
Alexandria, Va. 22313-1450

PRIORITY DOCUMENT

In connection with the above-identified patent application, Applicant herewith submits a certified copy of the corresponding basic application filed in Argentina

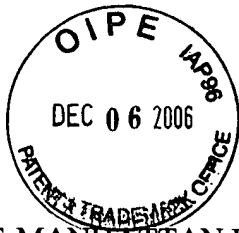
Number : 06 01 01564
Filed : April 20, 2006

the right of priority of which is claimed.

Respectfully submitted
for Applicant(s),

By: DR Ranft
Collen/IP
Donald J. Ranft 53,501

DJR:ae
Enc.: Priority Document



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(914) 941-5761

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DEPÓSITO

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 ACTA N° P 20060101564

LA ADMINISTRACION NACIONAL DE PATENTES, CERTIFICA QUE CON FECHA 20 DE ABRIL DE 2006 SE PRESENTÓ A NOMBRE DE MOSZORO, ANTONIO ROMAN; MOSZORO, BARTOLOME ESTANISLAO; CON DOMICILIO LEGAL EN ALSINA 1248, PISO 2°, CAPITAL FEDERAL, REPUBLICA ARGENTINA (AR).

UNA SOLICITUD DE PATENTE DE INVENCION RELATIVA A: INSTALACION ELECTRONEUMATICA APLICADA A MAQUINAS SEMBRADORAS CON UNIDADES INDEPENDIENTES ASOCIADAS A LOS DOSIFICADORES NEUMATICOS DE SEMILLA

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A PEDIDO DEL SOLICITANTE, EXPIDO LA PRESENTE CONSTANCIA DE DEPOSITO EN BUENOS AIRES, REPUBLICA ARGENTINA, A LOS 7 DIAS DEL MES DE JUNIO DE 2006.

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DR. EDUARDO ARIAS
 COMISARIO
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Patentes de Invención
 Modelos de Utilidad



Marcas



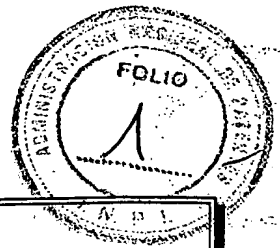
Modelos y Diseño
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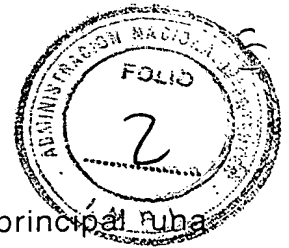
PATENTE DE INVENCION

SOBRE: INSTALACION ELECTRONEUMATICA APLICADA A
MAQUINAS SEMBRADORAS, CON UNIDADES
INDEPENDIENTES ASOCIADAS A LOS
DOSIFICADORES NEUMATICOS DE SEMILLA

TITULAR: 1) ANTONIO ROMANO MOSZORO
2) BARTOLOME ESTANISLAO MOSZORO

RESIDENCIA: 1) ITALIA 63 BIS PISO 10 DPTO. "1"
2000 - ROSARIO - PROV. DE SANTA FE
ARGENTINA
2) BV. OROÑO 275
2000 - ROSARIO - PROV. DE SANTA FE
ARGENTINA

TERMINO: VEINTE AÑOS



La presente patente de invención tiene por objeto principal una
INSTALACION ELECTRONEUMATICA APLICADA A MAQUINAS
SEBRADORAS, CON UNIDADES INDEPENDIENTES ASOCIADAS A LOS
DOSIFICADORES NEUMATICOS DE SEMILLA, siendo dichas unidades
5 accionadas desde un circuito eléctrico de comando programado, lo que hace
posible realizar un trabajo de manera mucho mas simple y directo, con menor
costo de instalación y mantenimiento, comparado con las sembradoras
neumáticas de accionamiento hidráulico convencionales que se conocen en la
actualidad.

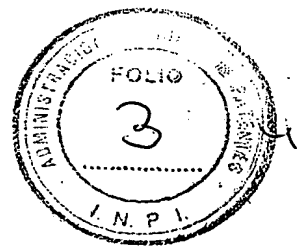
10

Más concretamente, la presente patente de invención ampara una
novedosa instalación electroneumática especialmente concebida para ser
aplicada en máquinas sembradoras agrícolas, sean éstas autopropulsadas o de
arrastre.

15

La novedad radica en que la instalación inventada incluye una pluralidad de
unidades motoaspiradoras o motocompresoras que podrán ser comandadas
mediante motor eléctrico, neumático o hidráulico, cada una de las cuales actúa
asociada a al menos un respectivo dosificador neumático dispensador de las
20 semillas que se siembran.

Cada uno de los mencionados motocompresores o motoaspiradores, tiene
por finalidad generar la succión, vacío o presión neumática que requiere el



dosificador asociado para su funcionamiento. Se trata de unidades de accionamiento eléctrico que se alimentan con corriente continua desde una unidad de tensión continua.

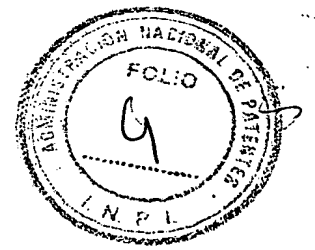
5 La instalación inventada podrá contar con una unidad central desde donde se comanda y controla electrónicamente el funcionamiento de dichos motocompresores o motoaspiradores.

10 Se trata de una invención que define una nueva combinación de medios, concebida para lograr un resultado superior, siendo la misma imprevisible y sorprendente incluso para un experto en la especialidad. Consecuentemente, además de ser nueva, su concepción constructiva y funcional muestra una clara actividad inventiva, de manera que, reúne las condiciones que exige la Ley para ser considerada patente de invención.

15

ARTE PREVIO

20 Como es ampliamente divulgado, las sembradoras neumáticas que se conocen en la actualidad, recurren a la utilización de un equipo hidráulico generador de presión neumática o vacío para el funcionamiento integral de la misma. Se trata de equipos complejos, costosos y de cierta potencia, ya que deben asegurar vacío o presión neumática en cada uno de los dosificadores



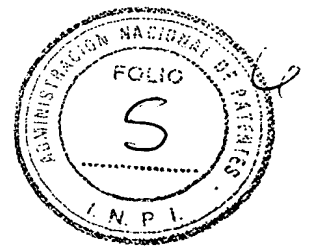
dispensadores de semillas que posee la máquina para sostener las mismas a medida que una pieza giratoria las va expulsando ordenadamente.

5 Para llevar a la práctica la finalidad funcional indicada, estos equipos conocidos, recurren a la utilización de elementos hidráulicos, mecánicos y neumáticos, con la inclusión de conductos estancos para la circulación de los distintos fluídos.

10 Específicamente para los casos donde la sembradora es arrastrada por un tractor agrícola, se utiliza un cardan para transmitir la fuerza desde la toma de potencia del tractor; desde dicho cardan se acciona una bomba hidráulica para comandar el funcionamiento de un motor hidráulico que es quien acciona la turbina generadora del vacío o compresor.

15 Como es en sí conocido, este tipo de instalación hidráulica, para funcionar requiere, necesariamente, de conductos específicos para la circulación del fluido con la intercalación de radiadores refrigeradores de aceite, filtros, válvulas reguladoras de caudal y presión, tanque de almacenamiento, etc.

20 Desde dicha turbina generadora del vacío, se extiende un importante circuito neumático con tramos troncales y salidas de derivación estancas hacia cada uno de los referidos dosificadores dispensadores de semilla.



Se destaca entonces que en todas estas sembradoras conocidas, con sus dispositivos dosificadores dispensadores neumáticos de semilla, se utiliza el fluido de compresión o vacío que circula desde un pulmón central o desde un conducto general de la máquina.

5

La turbina generadora de dicho vacío o presión es movida a través de un motor hidráulico que pertenece al circuito hidráulico de la sembradora, donde también se incluye la mencionada bomba hidráulica que es accionada desde la toma de potencia del tractor.

10

En resumen, podemos decir que todas estas instalaciones conocidas se sustentan sobre la base de generar un vacío o presión a partir de la toma de potencia del tractor de arrastre, para lo cual se recurre a complejos sistemas mecánicos e hidráulicos que requieren bomba hidráulica, tanque de aceite, ejes cardánicos articulados, reguladores de presión, reguladores de caudal, motor hidráulico, múltiples mangueras y cañerías hidráulicas por donde circula el fluido.

15

Se trata de instalaciones costosas que también requieren mucho esfuerzo de mantenimiento para asegurar el adecuado funcionamiento de todos sus órganos intervinientes.

20

Se utilizan muchas piezas que sufren desgastes y exigen la necesidad de limpieza y recambio periódico, tal como los filtros de aceite y de aire.



Utilizan complejos sistemas de movimiento para obtener el vacío o la presión requerida.

5 Para la vinculación con la toma de potencia del tractor, utilizan ejes cardánicos múltiples lo que también exige mantenimiento y confiere alta inseguridad por las múltiples piezas de desgaste que utiliza. Además conlleva una gran inseguridad para el personal que atiende la sembradora.

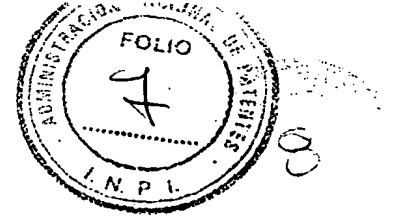
10 También se destaca el peso total que este equipamiento genera sobre la máquina, así como la cantidad de piezas expuestas a golpes, roturas y desgastes.

También se destacan los conocidos problemas que presentan estas máquinas cuando deben mantener la succión de vacío o presión en todos sus dosificadores aún cuando disminuye la velocidad en las cabeceras de cada lote.

15

Estos inconvenientes se agravan cuando mayor es la cantidad de surcos que abarca la sembradora, porque todos los conductos estancos deben ser de mayor longitud lo que exige una turbina de mayor porte y potencia, lo cual aumenta el problema de la seguridad a las personas que trabajan sobre la máquina.

20



También se destaca factor climático, sobre todo cuando se trata de mantener la viscosidad de fluido en zonas de baja temperatura.

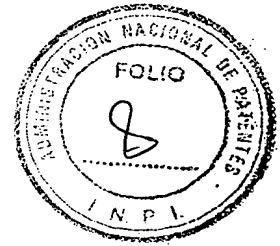
NOVEDAD DEL INVENTO – VENTAJAS – OBJETO PRINCIPAL

5

Los inconvenientes someramente apuntados en los párrafos precedentes, son claramente superados con la instalación electroneumática de la presente patente de invención, que presenta la particularidad de incorporar adyacente a cada dosificador un respectivo dispositivo motoaspirador o motocompresor que
10 proporcione el vacío o la presión neumática necesaria para su normal funcionamiento.

Estos motoaspiradores o motocompresores, podrán ser comandados desde la cabina del tractor a través de una instalación eléctrica o electrónica de
15 comando y accionamiento, los que actuarán de manera individual sobre cada uno de los dosificadores neumáticos de semilla que posea la máquina.

De esta manera, al ponerse en marcha la instalación, cada motoaspirador o motocompresor se pone en funcionamiento generando el vacío o la presión
20 necesaria a cada dosificador neumático al que se halla asociado. Al detenerse la máquina, no necesariamente se detienen dichos dispositivos ya que, su funcionamiento no depende del avance de la máquina ni está en función de la velocidad de traslado que realice la misma.



Si comparamos esta instalación con las precedentemente mencionadas que poseen las sembradoras conocidas, podemos destacar diversas ventajas tales como:

5

a) Sencillez de montaje, adyacente a cada dosificador neumático;

b) Menor peso total del equipamiento que prácticamente no influye sobre el peso total de la sembradora;

10

c) Presencia de muy pocos medios con movimiento lo que confiere seguridad al equipo;

d) Menor tiempo para el montaje del sistema de siembra durante la elaboración de la máquina;

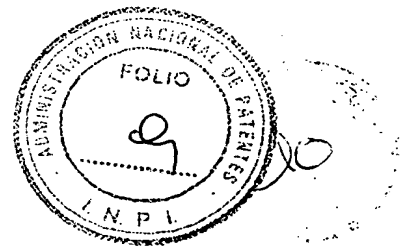
e) Mínimos tiempos ociosos por tareas de mantenimiento;

15

f) Economía en tiempo y gastos de mantenimiento ya que no hay filtros de aceite, conductos y cañerías estancas y demás elementos y accesorios hidráulicos combinados con una red de cañerías para la distribución del fluido neumático;

20

g) Desaparecen los mencionados problemas relacionados con el movimiento del tractor de arrastre (cabeceras de los lotes), porque se elimina de origen la presencia de una turbina de gran porte cuyo movimiento depende las rpm del tractor;



h) Posibilidad de mantener la succión generadora de vacío aún con la máquina detenida;

i) Menor potencia total necesaria para obtener el fin deseado lo que significa **un importante ahorro de combustible.**

5 j) Se eliminan de origen todos los conductos y mangueras de conducción del fluido neumático;

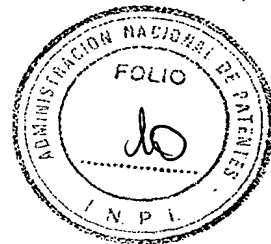
k) Se eliminan todas las mangueras hidráulicas, depósito hidráulico, radiador, filtros, reguladora de presión y caudal hidráulico, etc.;

10 l) Posibilidad de regular fácilmente la presión neumática de funcionamiento en cada dosificador.

m) Simplificación radical del sistema de funcionamiento de la sembradora lo que beneficia al fabricante y también al usuario en costos, prestaciones y utilización.

15 **DESCRIPCION SINTETICA DE LAS FIGURAS**

20 Para concretar las ventajas así someramente comentadas, a las que los usuarios y los entendidos en la especialidad podrán agregar muchas otras más, y para facilitar la comprensión de las características constructivas, constitutivas y funcionales de la instalación electroneumática aplicada a una sembradora inventada, se describe a continuación un ejemplo preferido de realización el que se ilustra, esquemáticamente y sin una escala determinada, en las láminas adjuntas, con la expresa aclaración de que, precisamente, por



tratarse de un ejemplo, no corresponde asignar al mismo un carácter limitativo o exclusivo del alcance de protección de la presente patente de invención, sino simplemente le asiste una intención meramente explicativa e ilustrativa de la concepción básica en que se funda la misma.

5

La Figura 1 es una vista esquemática en planta superior que representa una máquina sembradora de arrastre portando una instalación electroneumática tal como la que ampara la presente patente de invención.

10

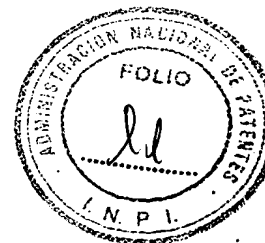
La Figura 2 es también una vista en planta superior similar a la figura anterior, en este caso mostrando una de las disposiciones posibles de los motoaspiradores o motocompresores que integran la instalación electroneumática inventada.

15

La Figura 3 es también una vista en planta superior similar a la figura anterior, en este caso mostrando una de las disposiciones posibles de los motoaspiradores o motocompresores que integran la instalación electroneumática inventada.

20

La Figura 4 es un diagrama esquemático que representa un circuito eléctrico básico apto para ser utilizado para el comando de los motoaspiradores o motocompresores que integran la instalación inventada.



La Figura 5 es un diagrama esquemático que representa otro circuito eléctrico apto para ser utilizado para el comando de los motoaspiradores o motocompresores que integran la instalación inventada.

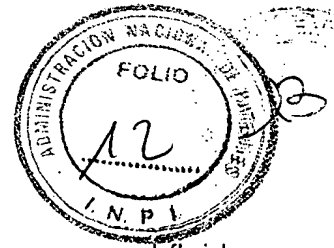
5 Se aclara que, en todas las figuras, a iguales números y letras de referencia, corresponden las mismas o equivalentes partes o elementos constitutivos del conjunto, según el ejemplo elegido para la presente explicación de la instalación electroneumática aplicada a sembradoras inventada.

10

DESCRIPCION DETALLADA DE UN EJEMPLO PREFERIDO

Tal como se puede apreciar en la Figura 1, la instalación electroneumática a que se refiere la presente patente de invención, es apta para ser aplicada en
15 una máquina sembradora de arrastre tal como la esquemáticamente representada, del tipo que comprende cuerpos de siembra -1- y -2- montados en una estructura de soporte que se define sobre un chasis -3-, desde donde se proyecta una lanza de tiro -4- para su vinculación y acople al tractor de arrastre.

20 Tal como se explicó precedentemente, la instalación comprende una unidad central de comando -5- vinculada a una fuente de energía eléctrica no ilustrada, desde donde se comanda el accionamiento de las unidades -6-, generadoras de la corriente neumática, vacío o presión, las que se disponen, una



a una, adyacentes a cada dosificador neumático de semillas para proveer el fluido neumático que cada dosificador utiliza para producir la expulsión ordenada de las semillas que se descargan durante el avance de la máquina.

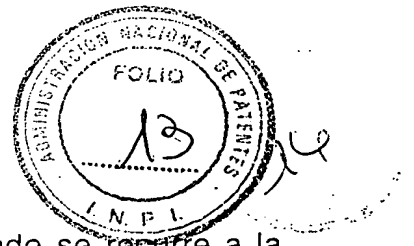
5 En las figuras se aprecia que todas dichas unidades motoaspiradoras o motocompresoras -6-, se mantienen integradas a un mismo circuito eléctrico -8- que se extiende desde dicha central de comando -5-, a través del cual se alimenta a los respectivos motores eléctricos generadores de la acción neumática individual que realiza cada unidad.

10

El mando que se origina desde dicha central -5- podrá ser individual e independiente para cada unidad -6- o bien colectivo para comandar simultáneamente el funcionamiento de todas ellas.

15

Se destaca que dentro de la misma concepción constructiva y funcional, esta invención contempla que las referidas unidades electroneumáticas -6- puedan ser motocompresores eléctricos, capaces de generar la presión neumática que requiere un determinado modelo de dosificador de semillas -7-; o bien las mismas unidades -6- podrán ser motoaspiradores, capaces de producir
20 vacío en el interior del cuerpo de otro tipo de dosificador de semillas -7- donde se requiere succión o vacío.



Observando ahora la figura 2, se aprecia el caso donde se recurre a la utilización de unidades electroneumáticas -6- por cada par de dosificadores de semillas dado que el tamaño de la sembradora o el tipo de grano que se siembra o la distancia entre surcos, así lo permite.

5

En la figura 3 se muestra el caso donde se recurre a la utilización de una unidad electroneumática -6- por cada cuerpo de siembra -1- y -2-, siendo ésta otra opción constructiva factible dentro del mismo principio de funcionamiento que define la instalación inventada.

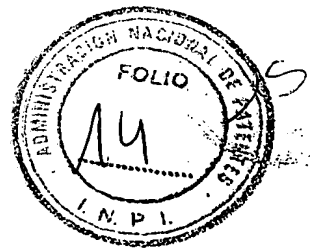
10

Si observamos ahora la figura 4, podemos comprender como se constituye el circuito eléctrico de comando, donde la central -5- es un regulador de tensión -9- que posee un circuito eléctrico mediante el cual se comanda la acción individual de cada unidad de control -10- individualmente asociada a cada unidad -6- regulando el caudal y presión de la succión que realiza para los casos donde se produce succión de vacío, a través de un motoaspirador, o bien regulando el caudal y presión neumática que produce un motocompresor.

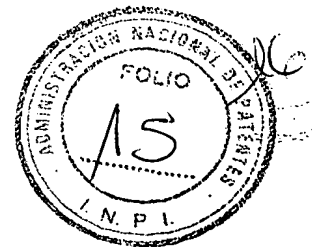
15

El circuito incluye un medio interruptor general -11- previsto para cuando es necesario desconectar toda la instalación, el referido regulador electrónico -9-, un correspondiente interruptor por surco -12- intercalado antes de cada unidad de control por surco -10- que comanda la acción de cada unidad motoaspiradora o motocompresora -6-.

20



En la Figura 5 se representa el caso donde la referida central de comando electrónico -5- posee un microprocesador programado a través de un “software específico” para controlar la acción de cada unidad motoaspiradora o motocompresora -6-, monitoreando la caída de las semillas al surco, en función de la información que proveen las unidades remotas de control -13-.



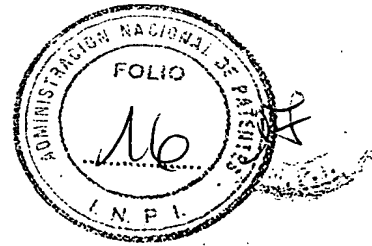
REIVINDICACIONES

Tras haber descrito y ejemplificado la naturaleza y objeto principal de la presente invención, así como también la manera en que la misma se puede llevar a la práctica, se declara reivindicar como de propiedad y de derechos exclusivos:

1.- **INSTALACION ELECTRONEUMATICA APLICADA A MAQUINAS SEMBRADORAS, CON UNIDADES INDEPENDIENTES ASOCIADAS A LOS DOSIFICADORES NEUMATICOS DE SEMILLA** , para ser aplicada en máquinas sembradoras agrícolas, sean éstas autopropulsadas o de arrastre, caracterizada porque comprende una central de comando general (5) que se alimenta desde una fuente de corriente eléctrica y controla una correspondiente unidad de control individual (10) que regula el funcionamiento de la unidad electroneumática (6) que se asocia a los dosificadores de semillas que posee la máquina sembradora, para realizar la acción neumática.

2.- **INSTALACION ELECTRONEUMATICA APLICADA A MAQUINAS SEMBRADORAS**, según lo reivindicado en 1, caracterizada porque la unidad electroneumática que se asocia a los dosificadores de semillas es una motoaspiradora.

3.- **INSTALACION ELECTRONEUMATICA APLICADA A MAQUINAS SEMBRADORAS**, según lo reivindicado en 1, caracterizada porque la unidad



electroneumática que se asocia a los dosificadores de semillas es una moto compresora.

4.- INSTALACION ELECTRONEUMATICA APLICADA A MAQUINAS

5 **SEMBRADORAS**, según lo reivindicado en 1, caracterizada porque la unidad electroneumática se asocia a todos los dosificadores que posee un cuerpo de siembra de la máquina sembradora.

5.- INSTALACION ELECTRONEUMATICA APLICADA A MAQUINAS

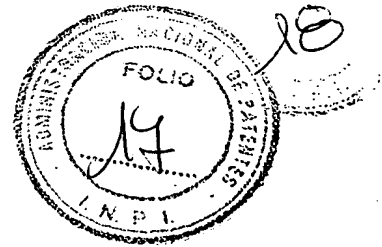
10 **SEMBRADORAS**, según lo reivindicado en 1, caracterizada porque la unidad electroneumática se asocia a pares de dosificadores que posee la máquina sembradora.

6.- INSTALACION ELECTRONEUMATICA APLICADA A MAQUINAS

15 **SEMBRADORAS**, según lo reivindicado en 1, caracterizada porque la unidad electroneumática se asocia individualmente a cada dosificador de semillas que posee la máquina sembradora.

7.- INSTALACION ELECTRONEUMATICA APLICADA A MAQUINAS

20 **SEMBRADORAS**, según lo reivindicado en 1, caracterizada porque la central de comando general es un regulador de tensión que controla a las unidades de control individual asociadas a los dosificadores neumáticos para aumentar o disminuir la acción neumática que realizan.



8.- INSTALACION ELECTRONEUMATICA APLICADA A MAQUINAS SEMBRADORAS, según lo reivindicado en 1, caracterizada porque la central de comando general es un micro procesador electrónico asociado a unidades remotas de monitoreo con microprocesador -13-, que controla el funcionamiento de las unidades de control individual asociadas a los dosificadores neumáticos para aumentar o disminuir la acción neumática que realizan.

SANDRA M. MAESTRO

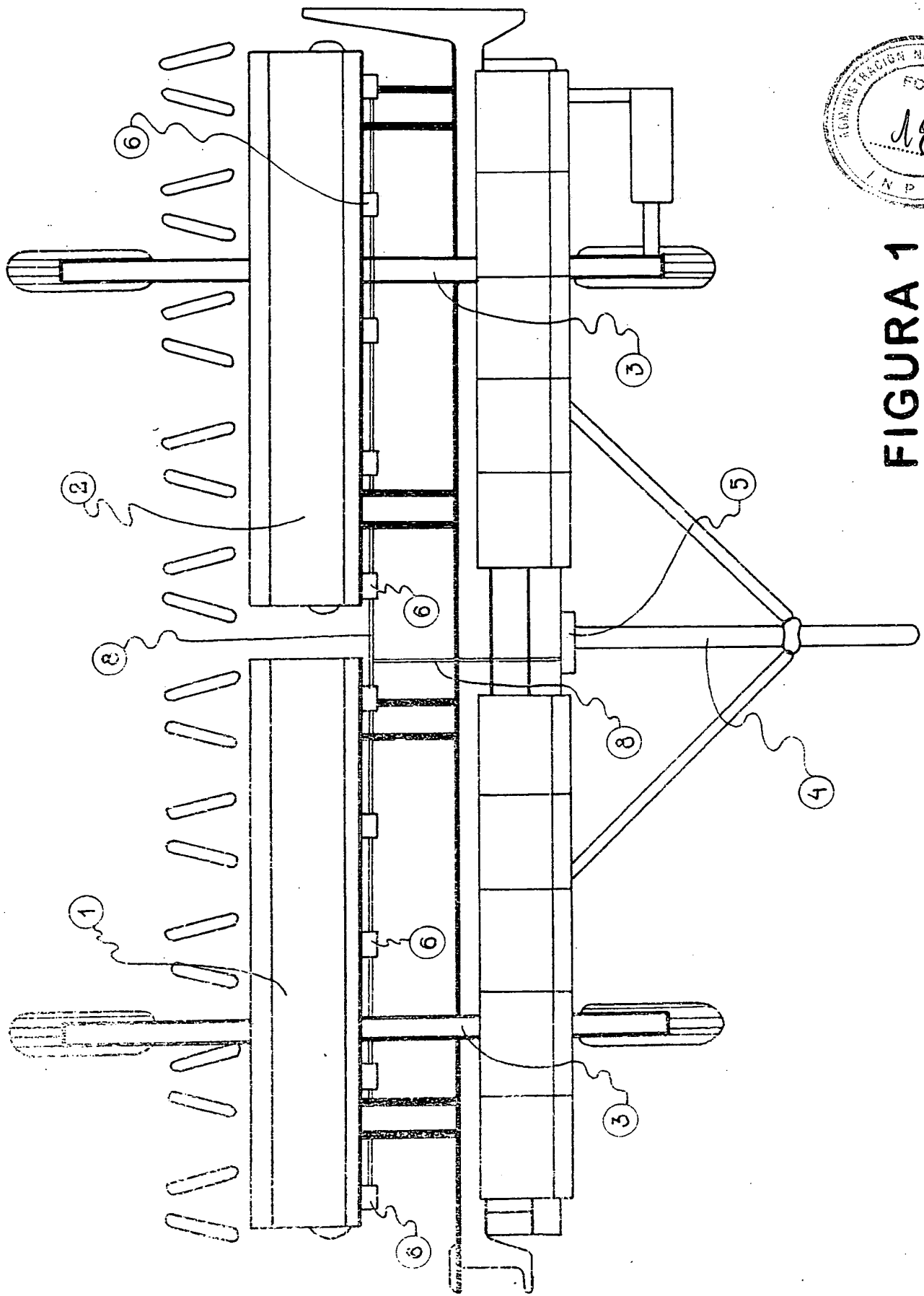
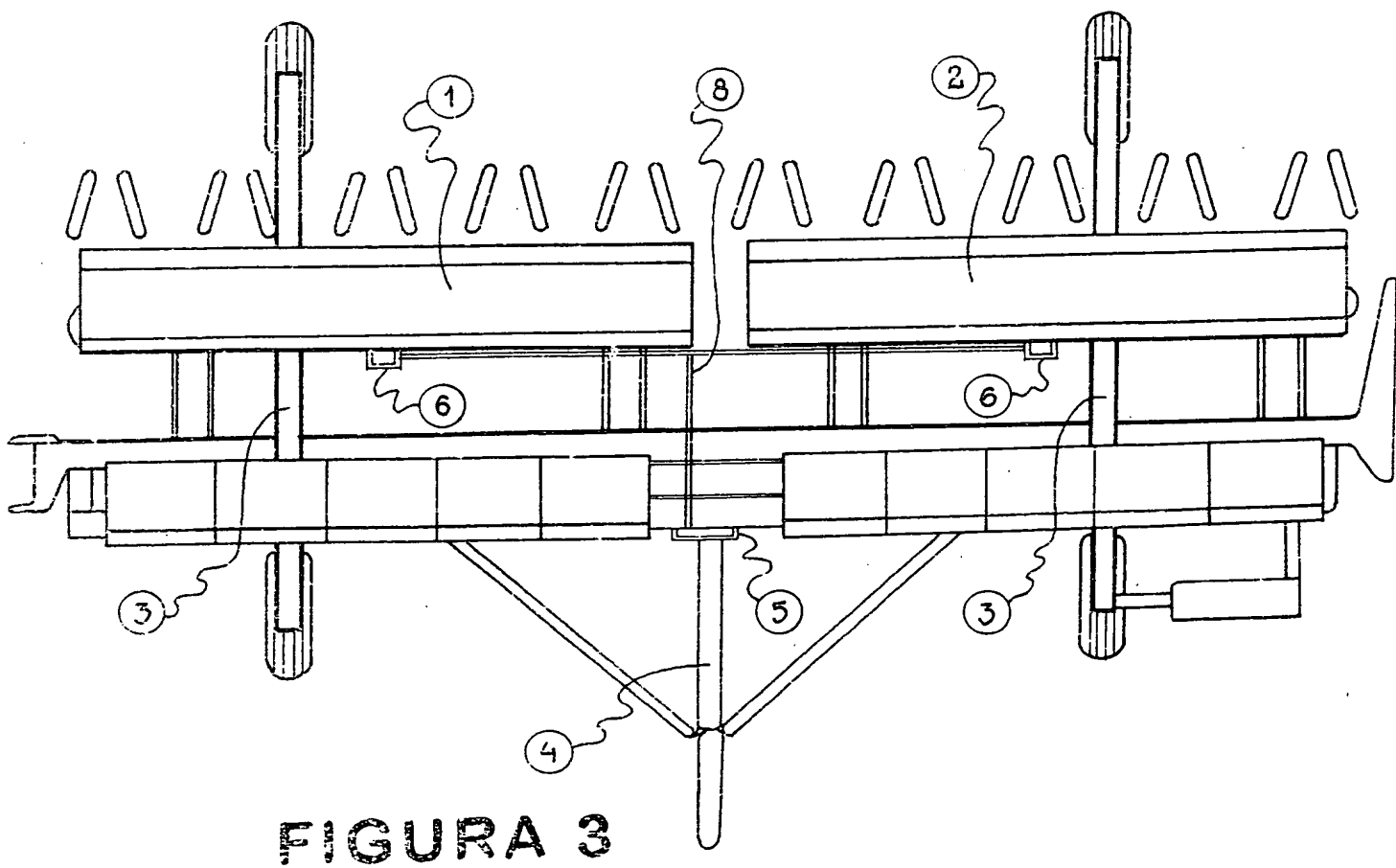
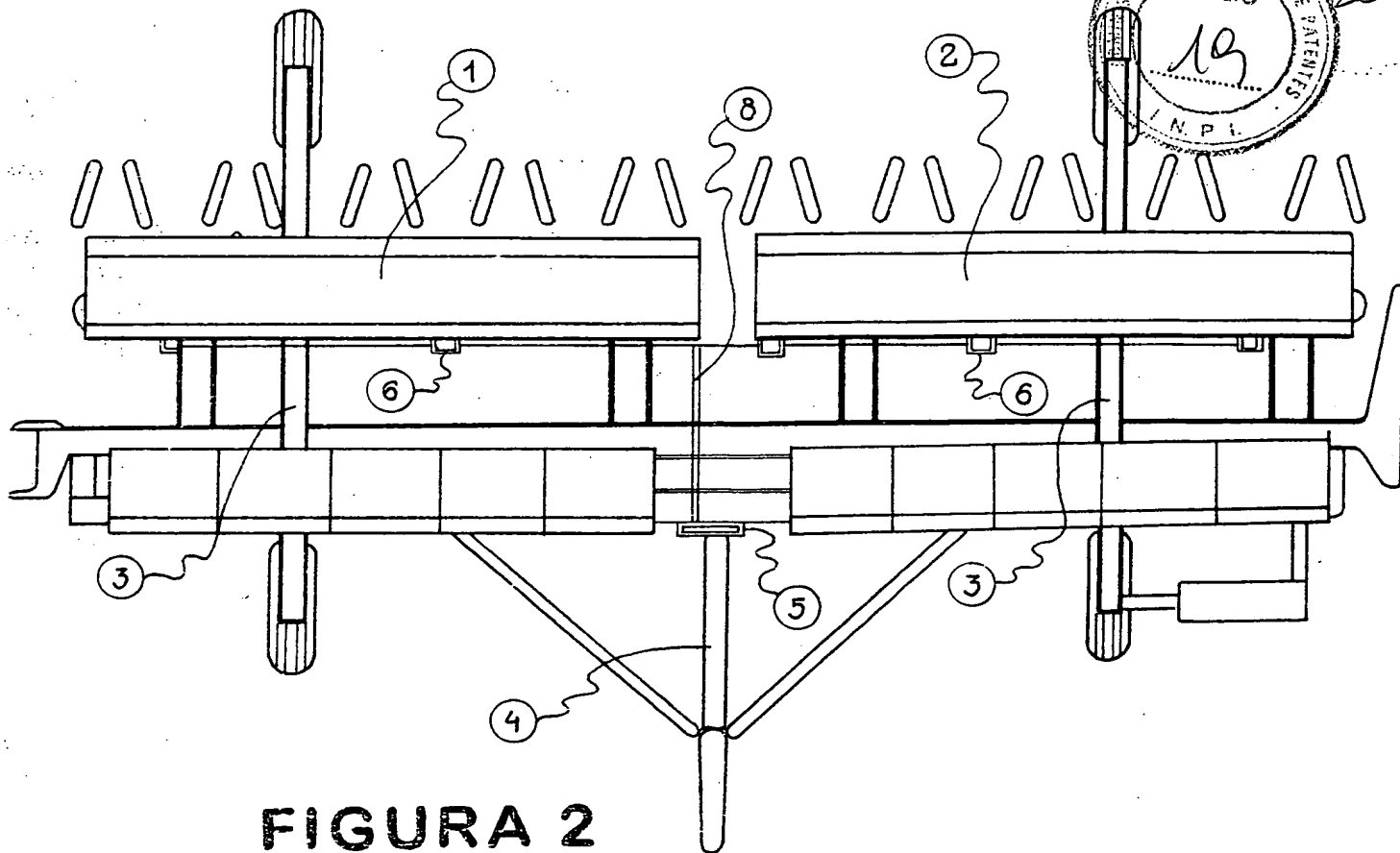


FIGURA 1





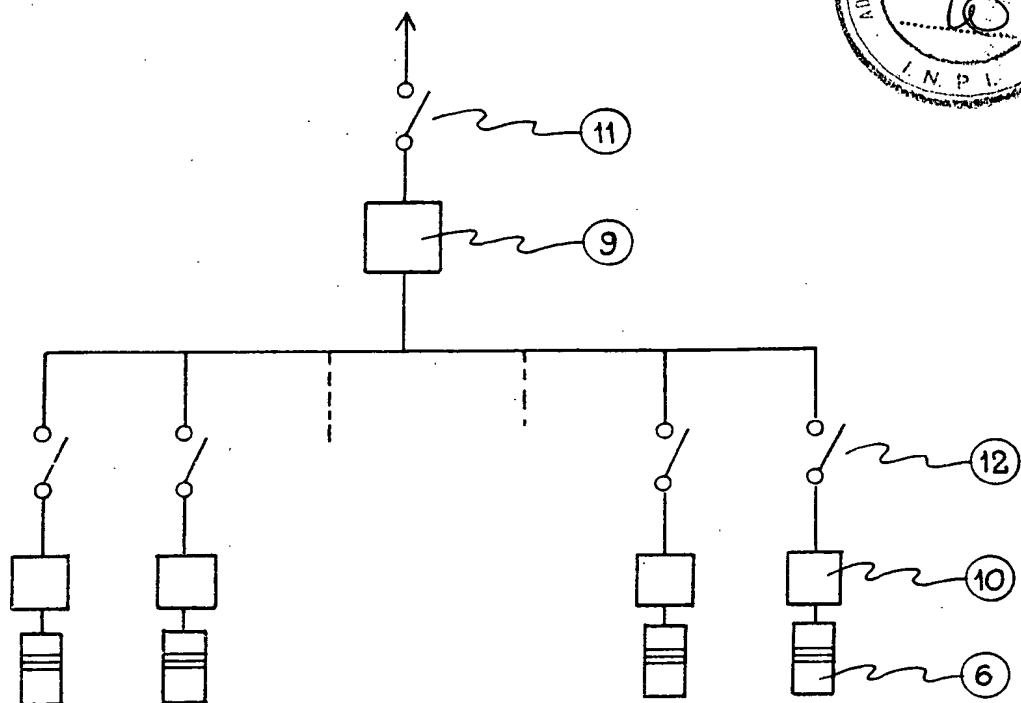


FIGURA 4

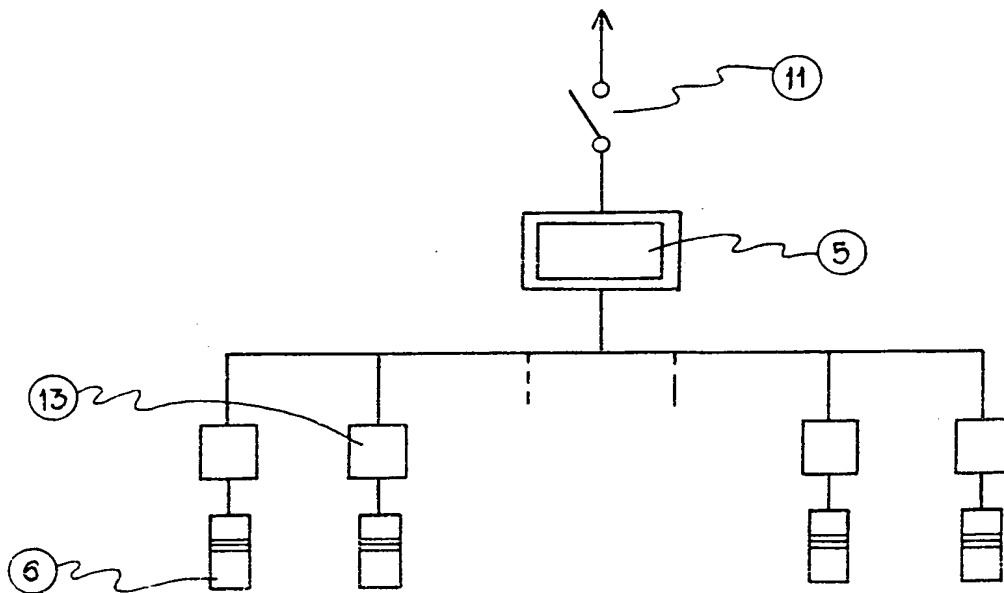
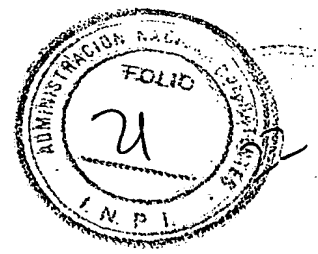


FIGURA 5



RESUMEN

Es una instalación apta para ser aplicada en máquinas sembradoras agrícolas, sean éstas autopropulsadas o de arrastre. Comprende una central de comando general (5) que se alimenta desde una fuente de corriente eléctrica y controla una correspondiente unidad de control individual (10) que regula el funcionamiento de la unidad electroneumática (6) que se asocia a los dosificadores de semillas que posee la máquina sembradora, para realizar la acción neumática. Dicha unidad electroneumática podrá ser una motoaspiradora o bien una motocompresora. La invención contempla que estas unidades se asocien a todos los dosificadores que posee un cuerpo de siembra de la máquina sembradora, a pares de dosificadores que posee la máquina sembradora, o bien individualmente a cada dosificador de semillas que posee la máquina sembradora.

15

DECLARATION FOR PATENT APPLICATION

Docket No. **F587**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Electropneumatic Installation Applied To Seeders Having Independent Units Associated to Pneumatic Seed Dosing Devices

the specification of which

is attached hereto.

was filed on _____ as
Application Serial No. _____
and was amended on _____

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)

<u>Number</u>	<u>Country</u>	<u>Day/Month/Year Filed</u>	<u>Priority Claimed</u>
<u>060101564</u>	<u>Argentina</u>	<u>April 20, 2006</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
_____	_____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code §112. I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application Serial No	Filing Date	Patented, Pending, Abandoned
_____	_____	_____
_____	_____	_____
_____	_____	_____

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application, to insert on this Declaration any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office (USPTO), and to transact all business in the USPTO connected therewith: **Donald J. Ranft, Reg. No. 53,501; Robert M. McDermott, Reg. No. 41,508; Christopher S. Daly, Reg. No. 37,303.**

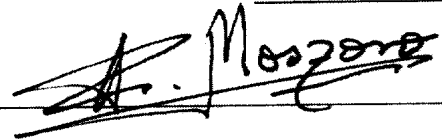
Address all calls to: OFFICE MANAGER, at telephone no. (914) 941-5668

Mail all correspondence to the address associated with Customer No.:

34440

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of First Joint Inventor: Antonio Romano Moszoro

Inventor's signature  Date 10/23/2006

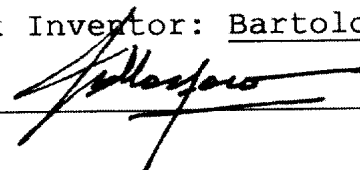
Residence: La Paz 1842

Rosario, Argentina

Citizenship: Argentina

Post Office Address: _____

Full name of Second Joint Inventor: Bartolome Estanislao Moszoro

Inventor's signature  Date 10/23/2006

Residence: La Paz 1842

Rosario, Argentina

Citizenship: Argentina

Post Office Address: _____

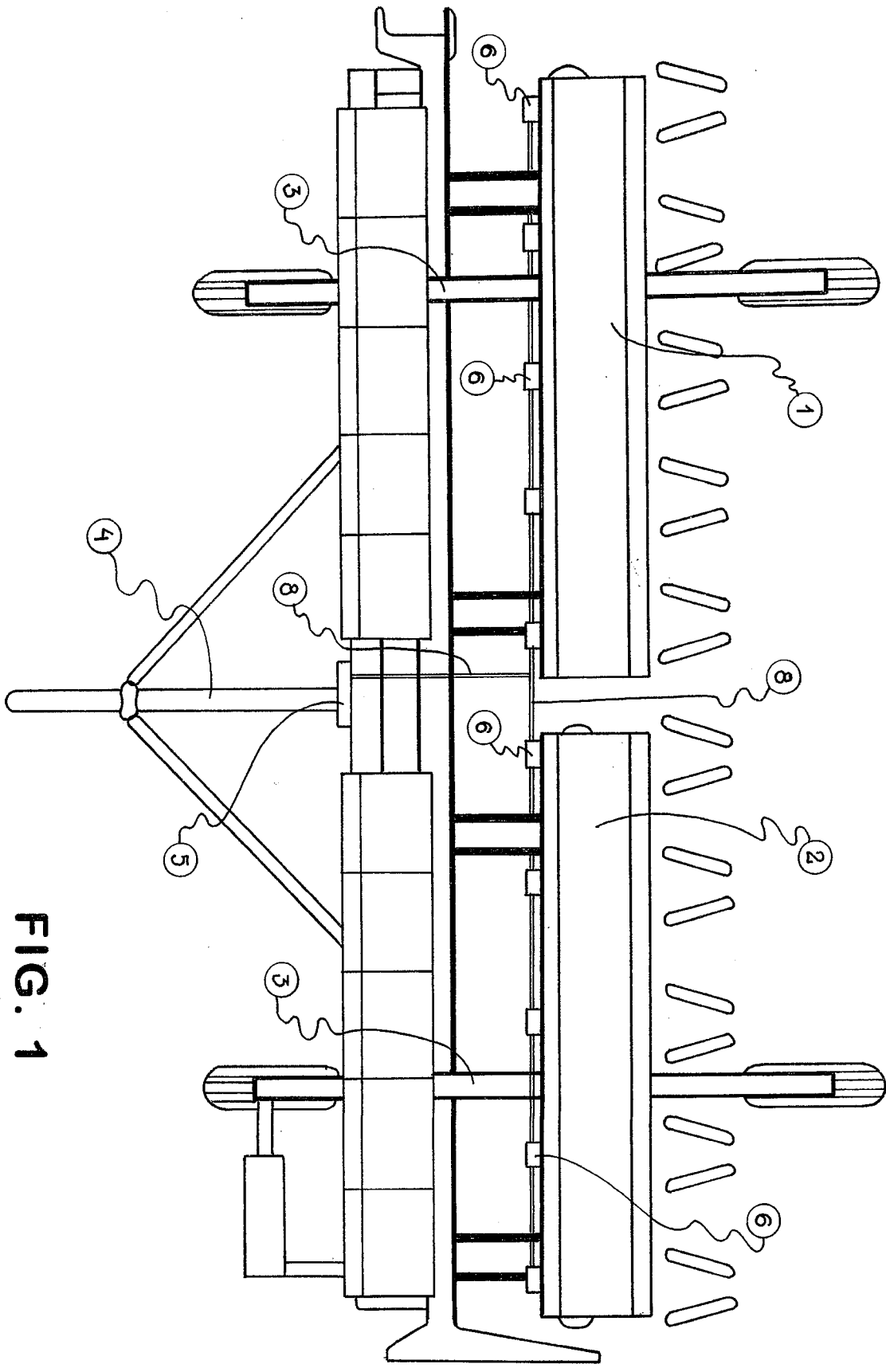


FIG. 1

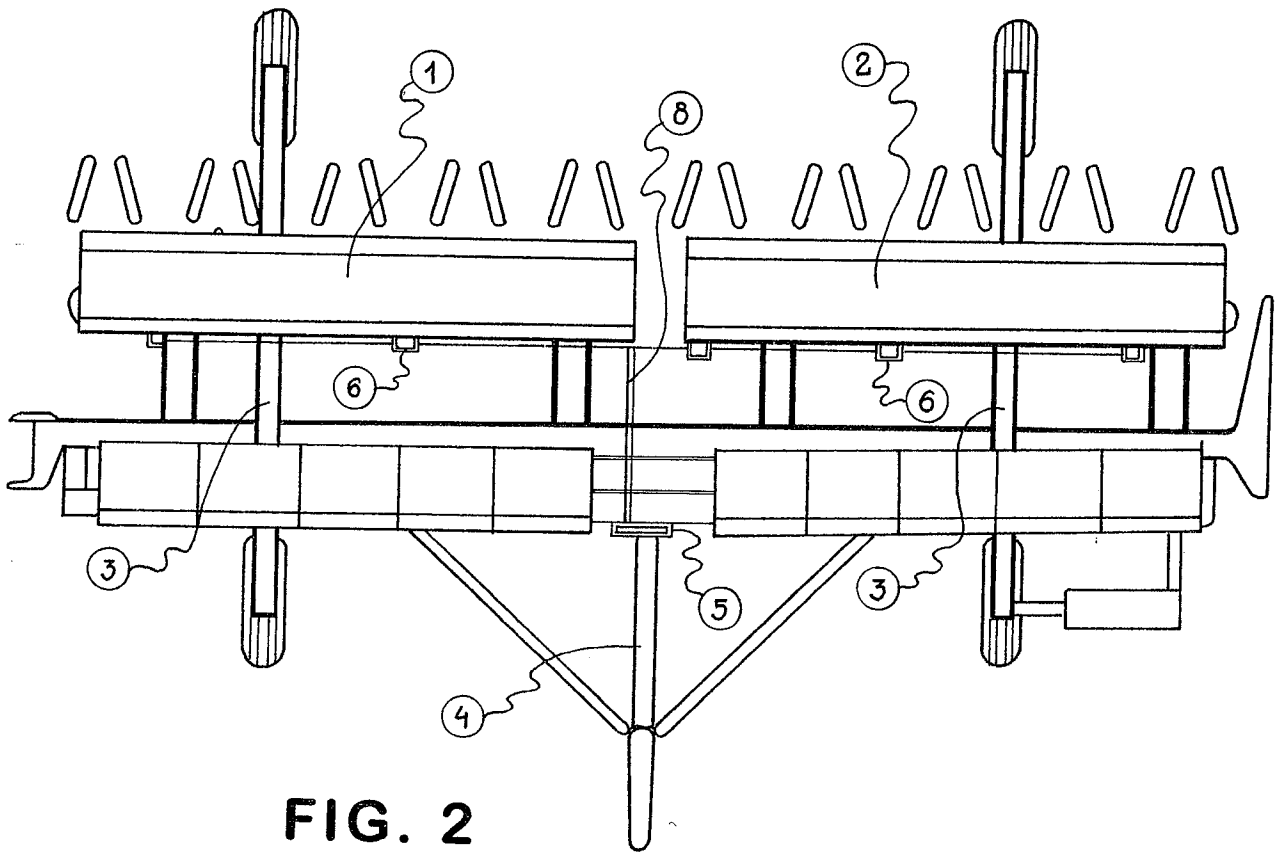


FIG. 2

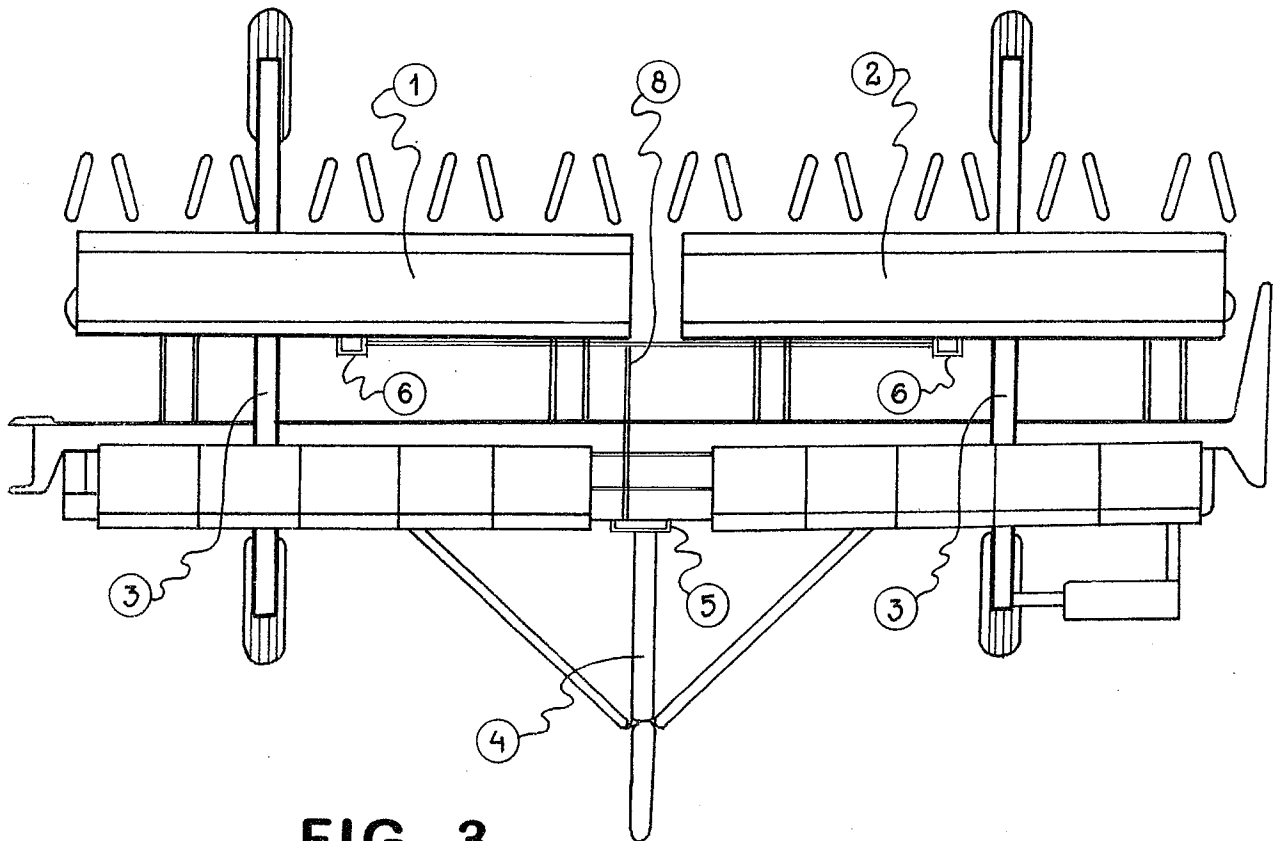


FIG. 3

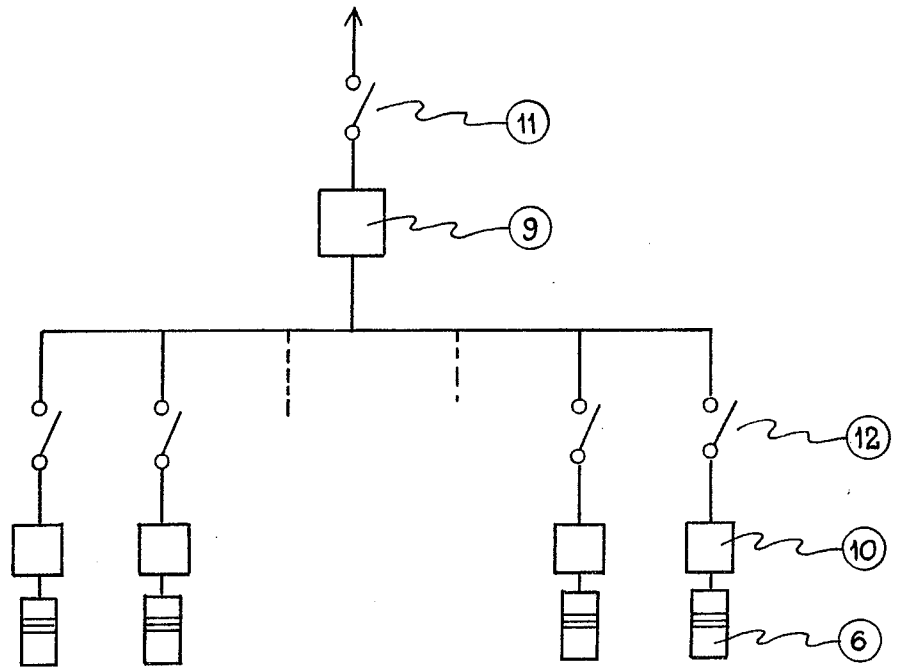


FIG. 4

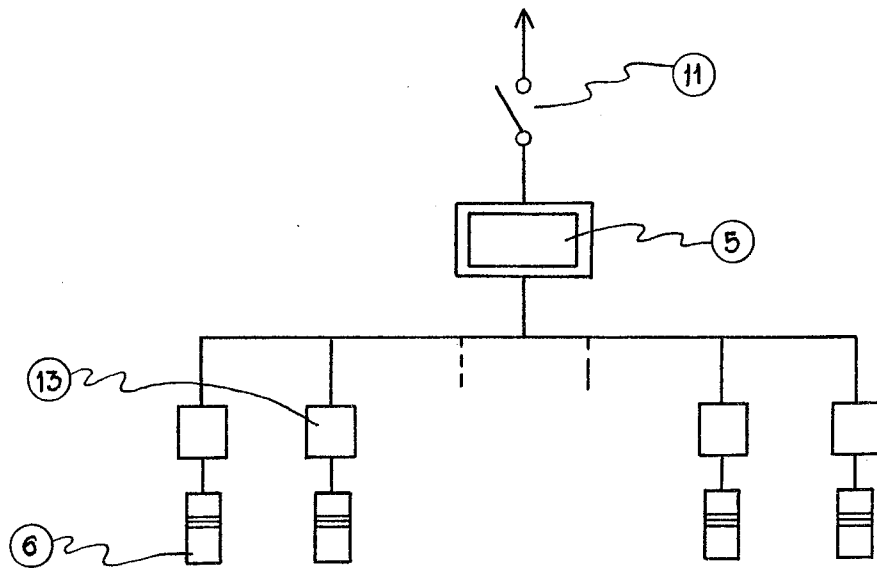


FIG. 5

**ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS HAVING
INDEPENDENT UNITS ASSOCIATED TO PNEUMATIC SEED DOSING
DEVICES**

5 The main object of present invention is an electro-pneumatic installation
applied to seeders, having individual units connected to pneumatic seed dosing
devices, said units being driven by an electric programmed control circuit, thus
enabling a more simple and direct work, at a lower installation and maintenance
cost when compared to conventional hydraulically operated pneumatic seeders at
10 presently known.

 Specifically, this invention covers a novel electro-pneumatic installation
specially conceived to be applied to self-propelled or tow-type agricultural seeders.

15 The novelty lies on the fact that the invented installation includes a plurality
of motor suction or motor compressor units that may be driven by an electric,
pneumatic or hydraulic motor, each of which operates in connection to at least one
respective pneumatic dosing device which dispenses the seeds to be sowed.

20 The object of each of the aforesaid motor compressors or motor suction
units is to generate the suction, vacuum or pneumatic pressure required by the
associated dosing device for its operation. These are electrical drive units fed with
direct current from a continuous voltage unit.

The invented installation can be equipped with a central unit wherefrom the operation of said motor compressors or motor suction units is commanded and controlled on an electronic basis.

5 **PRIOR ART**

As it is widely revealed, pneumatic seeders known at present use an hydraulic equipment that generates pneumatic pressure or vacuum for an integral operation thereof. These are complex and expensive equipment units with certain
10 power since they must ensure the vacuum or pneumatic pressure in each of the seed dispensing-dosing devices that the machine is provided with in order to hold them up as a rotating part expels them in order.

In order to perform the functional purpose stated above, these known
15 equipment units use hydraulic, mechanical and pneumatic elements, including fluid-tight conduits for the circulation of the several fluids.

Specifically, in the cases where a seeder is towed by an agricultural tractor, a cardan is used to impart power from the tractor's power take-off, a hydraulic
20 pump is actuated from said cardan to control the operation of a hydraulic motor that actuates a vacuum generating turbine or compressor.

This type of hydraulic installation, as is already known, necessarily requires specific conduits for fluid circulation, with the insertion of oil coolers, filters, flow and pressure regulating valves, a storage tank, and so on.

5 There is a significant pneumatic circuit with trunk sections and fluid-tight bypass outlets towards each of the aforesaid seed dosing-dispensing devices, which stretches out from said vacuum generating turbine.

10 It should be noted then that in all these known seeders with their seed pneumatic dosing-dispensing devices, use of compression or vacuum fluid circulating from a central lung or from a machine general conduit is made.

15 The turbine generating such vacuum or pressure is moved through a hydraulic motor that the seeder hydraulic circuit is provided with, wherein the aforesaid hydraulic pump actuated from the tractor power take-off is also included.

20 Briefly, we may say that all these known installations are based on the generation of vacuum or pressure from a tow tractor power take-off, for this purpose complex mechanical and hydraulic systems requiring a hydraulic pump, an oil tank, articulated cardanic shafts, pressure regulators, flow regulators, a hydraulic motor, multiple hoses and hydraulic piping for fluid circulation, are used.

 These are expensive installations requiring a great deal of maintenance in order to ensure the correct operation of all its member parts.

Many parts subject to wear and requiring periodic cleaning and replacement, e.g. oil and air filters, are used.

5 The required vacuum or pressure is obtained by means of complex movement systems.

For connection with the tractor power take-off, they use multiple cardanic shafts that also require maintenance and this fact causes it to be highly unsafe by reason of the multiple parts subject to wear being used. It is also highly unsafe for workers who operate the seeder machine.

10

The overall weight that this equipment exerts on the machine, as well as the number of parts subject to strokes, breaks and wear, is also relevant.

15

The known problems encountered of these machines when vacuum suction or pressure must be maintained in all its dosing devices, even when the speed decreases at the head of each batch, are also highlighted.

20 The greater the number of furrows covered by the seeder, the worse the drawbacks encountered, because the length of all the fluid-tight conduits must be longer, thus requiring a more powerful and larger size turbine, a fact that increases safety issues among the workers manipulating said machine.

The weather factor must also be mentioned, mainly when fluid viscosity must be maintained in low-temperature areas.

NOVELTY OF THE INVENTION – ADVANTAGES – MAIN OBJECT

5

The drawbacks briefly mentioned above are clearly overcome with the electro-pneumatic installation of the present invention, the special feature of which is the incorporation of a respective motor suction or motor compressor device adjacent to each dosing unit that provides the pneumatic pressure or vacuum
10 required for its regular operation.

These motor suction or motor compressor units can be controlled from the tractor's cabin through an electric or electronic command and operation installation, operating on an individual basis over each pneumatic seed dosing
15 device that the machine is provided with.

Thus when the installation is started, each motor suction or motor compressor unit generates the vacuum or pressure required by each pneumatic dosing device to which it is associated. When the machine stops, said devices do
20 not necessarily stop since their operation does not depend on the forward movement of the machine or on the movement speed thereof.

If we compare this installation with that of the aforesaid known seeders, the following advantages may be mentioned:

- a) Mounting simplicity, adjacent to each pneumatic dosing device;
- b) Lower overall weight of the equipment, practically exerting no influence on the seeder's total weight;
- 5 c) Minimal moving means making the equipment safe;
- d) Less time required for mounting the sowing system during machine manufacture.
- e) Minimum down time for maintenance tasks;
- f) Economy in time and maintenance expenses since there are no oil filters, leak-proof conduits and piping or other hydraulic elements and accessories
10 combined with a piping network for the distribution of pneumatic fluid;
- g) The aforesaid problems related to the tow tractor movement (batch heads) disappear since the presence of a large sized turbine the movement of which depends on the tractor rpm is deleted at source.
- 15 h) Possibility of maintaining the vacuum generating suction, even if the machine is halted;
- i) Lower total power required to obtain the desired purpose, implying a significant economy in fuel.
- j) All pneumatic fluid conduits and hoses are eliminated at source;
- 20 k) All hydraulic hoses, the hydraulic reservoir, radiator, filters, flow and pressure regulator, etc. are eliminated;
- l) Possibility of easily regulating the operating pneumatic pressure in each dosing device.

m) Radical simplification of seeder operating system, for the benefit of the manufacturer and the user in respect of costs, features and use.

BRIEF DESCRIPTION OF THE DRAWINGS

5

In order to embody the advantages briefly described herein, to which many others may be added by users and experts in the art and to facilitate the understanding of constructive, constitutive and functional features of the invented electro-pneumatic installation applied to a seeder, an example of a preferred embodiment illustrated on a schematic basis and not to a predetermined scale, is described on the enclosed sheets, expressly making clear that, as it is precisely an example, the allocation of a limitative or exclusive character, as regards the protection scope of this invention, is not applicable, but rather a merely explanatory and illustrative intention of the basic conception on which the same is based.

10
15

Figure 1 is a schematic plan view representing a tow type seeder provided with an electro-pneumatic installation such as the one covered by the present invention.

20

Figure 2 is also a plan view similar to the previous figure, showing in this case one of the possible motor suction or motor compressor arrangements that integrate the invented electro-pneumatic installation.

Figure 3 is also a plan view similar to the previous figure, in this case showing one of the possible motor suction or motor compressor arrangements integrating the invented electro-pneumatic installation.

5 Figure 4 is a schematic diagram representing the basic electric circuit suitable to be used for the motor suction or motor compressor command integrating the invented installation.

10 Figure 5 is a schematic diagram representing another electric circuit suitable for the motor suction or motor compressor command integrating the invented installation.

15 It is clarified that, in all figures, equal reference numbers and characters are in correspondence with equal or constitutive parts or elements in the assembly, according to the example chosen to explain the invented electro-pneumatic installation applied to seeders.

DETAILED DESCRIPTION OF A PREFERRED EXAMPLE

20 As may be seen in Figure 1, the electro-pneumatic installation referred to in the present invention is suitable for being applied on a tow type seeder such as the one that is schematically represented, of the type comprising seeding bodies 1 and 2 mounted on a support frame defined over a chassis -3-, wherefrom a drawbar 4 projects for its connection and coupling to the tow tractor.

As previously explained, the installation comprises a command central unit 5 linked to an electric power source (not shown), intended to control the operation of units 6, generating the pneumatic current, vacuum or pressure, arranged one by one adjacent to each pneumatic seed dosing device to provide the pneumatic fluid used by each dosing device to achieve the ejection of the seeds discharged during the machine forward movement in order.

In the figures it is noted that all said motor suction or motor compressor units 6 are maintained integrated to the same electric circuit 8 stretching out from said command central unit 5, through which the respective electric motors generating the individual pneumatic action performed by each unit are fed.

The command arising from said central unit 5 may be individual and independent for each unit 6, or else, it may be collective in order to control the operation of all units on a simultaneous basis.

It is pointed out that based on the same constructive and functional conception, this invention envisages that the aforesaid electro-pneumatic units 6 may be either electric motor compressors, capable of generating the pneumatic pressure required by a specified seed dosing device model - 7; or the same units 6 may be motor suction units, capable of producing vacuum within the body of another type of seed dosing device 7 wherein suction or vacuum is required.

Looking now at Figure 2, the case wherein electro-pneumatic units 6 are used per each pair of seed dosing devices is illustrated, since the size of the seeder or the type of grain sowed, or the distance among furrows, allows so.

5 Figure 3 shows the case wherein one electro-pneumatic unit 6 is used for each seeding body 1 and 2, this being another feasible constructive option within the same operation principle defined by the invented installation.

10 If we now see Figure 4, we may understand the design of the command electric circuit wherein the central unit 5 is a tension regulator 9 having an electric circuit through which the individual action of each control unit 10 individually associated to each unit 6 is controlled, regulating the flow and suction pressure through a motor suction unit when vacuum suction takes place, or else, regulating the flow and pneumatic pressure through a motor compressor.

15 The circuit includes a general interrupter means 11 envisaged for those cases wherein disconnection of the whole installation, the above mentioned electronic regulator 9, a corresponding interrupter per furrow 12 sandwiched before each control unit per furrow 10 controlling the movement of each motor suction or motor compressor unit 6, is required.

 Figure 5 shows the case wherein the above mentioned electronic command central unit 5 has a microprocessor programmed through a "specific software" to control the movement of each motor suction or motor compressor unit 6, that

monitors seeds falling into the furrow, on the basis of the information provided by remote control units 13.

CLAIMS

1. **ELECTRO-PNEUMATIC INSTALLATION APPLIED TO SEEDERS, WITH INDEPENDENT UNITS ASSOCIATED WITH PNEUMATIC SEED DOSING DEVICES**, to be applied to self-propelled or tow-type agricultural seeder machines, comprising a general command central unit (5) fed from an electric power source that controls an individual control unit (10) which regulates the operation of the electro-pneumatic unit (6) associated to the seed dosing devices of the seeder, in order to perform the pneumatic action.

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2.- An **ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS**, according to claim 1, wherein the electro-pneumatic unit associated to the seed dosing devices is a motor suction unit.

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3.- The **ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS**, according to claim 1, wherein the electro-pneumatic unit associated to the seed dosing devices is a motor compressor unit.

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4.- An **ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS**, according to claim 1, wherein the electro-pneumatic unit is associated to all dosing devices having a seeding body of the seeder.

5.- An **ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS**, according to claim 1, wherein the electro-pneumatic unit is associated to pairs of dosing devices within the seeder.

5 6.- An **ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS**, according to claim 1, wherein the electro-pneumatic unit is individually associated to each seed dosing device within the seeder.

7.- The **ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS**,
10 according to claim 1, wherein the general command central unit is a voltage regulator controlling the individual control units associated to the pneumatic dosing devices in order to increase or decrease the pneumatic action they perform.

8.- The **ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS**,
15 according to claim 1, wherein the general command central unit is an electronic microprocessor associated to remote monitoring units having the microprocessor 13, which controls the operation of the individual control units associated to the pneumatic dosing devices in order to increase or decrease the pneumatic action they perform.

ABSTRACT

Installation to be applied to self-propelled or tow-type agricultural seeders that comprises a general command central unit (5) fed from an electric power source
5 and controls a corresponding individual control unit (10) that regulates the operation of the electro-pneumatic unit (6) associated to the seed dosing devices within the seeder to perform the pneumatic action. Said electro-pneumatic unit may be a motor suction or a motor compressor unit. The invention envisages the association of these units to all the dosing devices in a seeding body of the
10 seeder, to pairs of dosing units in the seeder, or else, on an individual basis, to each seed dosing device of the seeder.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	F587
		Application Number	
Title of Invention	ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS HAVING INDEPENDENT UNITS ASSOCIATED TO PNEUMATIC SEED DOSING DEVICES		
The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76. This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.			

Secrecy Order 37 CFR 5.2

Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Applicant Information:

Applicant 1					<input type="button" value="Remove"/>
Applicant Authority		<input checked="" type="radio"/> Inventor		<input type="radio"/> Legal Representative under 35 U.S.C. 117	<input type="radio"/> Party of Interest under 35 U.S.C. 118
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Antonio Romano		Moszoro		
Residence Information (Select One) <input type="radio"/> US Residency <input checked="" type="radio"/> Non US Residency <input type="radio"/> Active US Military Service					
City	Rosario	Country Of Residenceⁱ	AR		
Citizenship under 37 CFR 1.41(b)ⁱ		AR			
Mailing Address of Applicant:					
Address 1	La Paz 1842				
Address 2					
City	Rosario	State/Province			
Postal Code		Countryⁱ	AR		
Applicant 2					<input type="button" value="Remove"/>
Applicant Authority		<input checked="" type="radio"/> Inventor		<input type="radio"/> Legal Representative under 35 U.S.C. 117	<input type="radio"/> Party of Interest under 35 U.S.C. 118
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Bartolome Estanislao		Moszoro		
Residence Information (Select One) <input type="radio"/> US Residency <input checked="" type="radio"/> Non US Residency <input type="radio"/> Active US Military Service					
City	Rosario	Country Of Residenceⁱ	AR		
Citizenship under 37 CFR 1.41(b)ⁱ		AR			
Mailing Address of Applicant:					
Address 1	La Paz 1842				
Address 2					
City	Rosario	State/Province			
Postal Code		Countryⁱ	AR		
All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the Add button.					<input type="button" value="Add"/>

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below. For further information see 37 CFR 1.33(a).

An Address is being provided for the correspondence Information of this application.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	F587	
		Application Number		
Title of Invention	ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS HAVING INDEPENDENT UNITS ASSOCIATED TO PNEUMATIC SEED DOSING DEVICES			
Customer Number	34440			
Email Address	dranft@collenip.com		<input type="button" value="Add Email"/>	<input type="button" value="Remove Email"/>

Application Information:

Title of the Invention	ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS HAVING INDEPENDENT UNITS ASSOCIATED TO PNEUMATIC SEED DOSING DEVICES			
Attorney Docket Number	F587	Small Entity Status Claimed	<input checked="" type="checkbox"/>	
Application Type	Nonprovisional			
Subject Matter	Utility			
Suggested Class (if any)		Sub Class (if any)		
Suggested Technology Center (if any)				
Total Number of Drawing Sheets (if any)	3	Suggested Figure for Publication (if any)		
Publication Information:				
<input type="checkbox"/> Request Early Publication (Fee required at time of Request 37 CFR 1.219)				
<input type="checkbox"/> Request Not to Publish. I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application has not been and will not be the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing.				

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32). Enter either Customer Number or complete the Representative Name section below. If both sections are completed the Customer Number will be used for the Representative Information during processing.			
Please Select One:	<input checked="" type="radio"/> Customer Number	<input type="radio"/> US Patent Practitioner	<input type="radio"/> US Representative (37 CFR 11.9)
Customer Number	34440		

Domestic Priority Information:

This section allows for the applicant to claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c). Providing this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78(a)(2) or CFR 1.78(a)(4), and need not otherwise be made part of the specification.			
Prior Application Status			<input type="button" value="Remove"/>
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
Additional Domestic Priority Data may be generated within this form by selecting the Add button.			<input type="button" value="Add"/>

Foreign Priority Information:

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	F587
	Application Number	
Title of Invention	ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS HAVING INDEPENDENT UNITS ASSOCIATED TO PNEUMATIC SEED DOSING DEVICES	

This section allows for the applicant to claim benefit of foreign priority and to identify any prior foreign application for which priority is not claimed. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55(a).

<input type="button" value="Remove"/>			
Application Number	Country ⁱ	Parent Filing Date (YYYY-MM-DD)	Priority Claimed
06 01 01564	AR	2006-04-20	<input checked="" type="radio"/> Yes <input type="radio"/> No
Additional Foreign Priority Data may be generated within this form by selecting the Add button.			<input type="button" value="Add"/>

Assignee Information:

Providing this information in the application data sheet does not substitute for compliance with any requirement of part 3 of Title 37 of the CFR to have an assignment recorded in the Office.

Assignee 1					<input type="button" value="Remove"/>
If the Assignee is an Organization check here. <input type="checkbox"/>					
Prefix	Given Name	Middle Name	Family Name	Suffix	
Mailing Address Information:					
Address 1					
Address 2					
City		State/Province			
Country ⁱ		Postal Code			
Phone Number		Fax Number			
Email Address					
Additional Assignee Data may be generated within this form by selecting the Add button.					<input type="button" value="Add"/>

Signature:

A signature of the applicant or representative is required in accordance with 37 CFR 1.33 and 10.18. Please see 37 CFR 1.4(d) for the form of the signature.

Signature	/Donald J. Ranft/		Date (YYYY-MM-DD)	2006-12-04	
First Name	Donald	Last Name	Ranft	Registration Number	53501

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Patent Application Fee Transmittal

Application Number:				
Filing Date:				
Title of Invention:	ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS HAVING INDEPENDENT UNITS ASSOCIATED TO PNEUMATIC SEED DOSING DEVICES			
First Named Inventor/Applicant Name:	Antonio Romano Moszoro			
Filer:	Donald J. Ranft/Amy Edelstein			
Attorney Docket Number:	F587			
Filed as Small Entity				
Utility Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Utility filing Fee (Electronic filing)	4011	1	75	75
Utility Search Fee	2111	1	250	250
Utility Examination Fee	2311	1	100	100
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				425

Electronic Acknowledgement Receipt

EFS ID:	1349019
Application Number:	11566267
International Application Number:	
Confirmation Number:	5688
Title of Invention:	ELECTROPNEUMATIC INSTALLATION APPLIED TO SEEDERS HAVING INDEPENDENT UNITS ASSOCIATED TO PNEUMATIC SEED DOSING DEVICES
First Named Inventor/Applicant Name:	Antonio Romano Moszoro
Customer Number:	34440
Filer:	Donald J. Ranft/Amy Edelstein
Filer Authorized By:	Donald J. Ranft
Attorney Docket Number:	F587
Receipt Date:	04-DEC-2006
Filing Date:	
Time Stamp:	10:52:08
Application Type:	Utility

Payment information:

Submitted with Payment	yes
Payment was successfully received in RAM	\$425
RAM confirmation Number	1220
Deposit Account	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)	Multi Part /.zip	Pages (if appl.)
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1	Oath or Declaration filed	F587_Declaration.pdf	302555	no	3
Warnings:					
Information:					
2	Drawings	F587_DRAWINGS.pdf	137610	no	3
Warnings:					
Information:					
3		F587_Specification.pdf	792100	yes	14
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Specification		1	11	
	Claims		12	13	
	Abstract		14	14	
Warnings:					
Information:					
4	Application Data Sheet	F587ADS.pdf	958102	no	4
Warnings:					
Information:					
5	Fee Worksheet (PTO-875)	fee-info.pdf	8447	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			2198814		

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 11,566,267
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APPLICATION AS FILED – PART I		
	(Column 1)	(Column 2)
FOR	NUMBER FILED	NUMBER EXTRA
BASIC FEE (37 CFR 1.16(a), (b), or (c))		
SEARCH FEE (37 CFR 1.16(k), (l), or (m))		
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))		
TOTAL CLAIMS (37 CFR 1.16(i))	8	minus 20 =
INDEPENDENT CLAIMS (37 CFR 1.16(h))	1	minus 3 = *
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR	
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))		

SMALL ENTITY	
RATE (\$)	FEE (\$)
	150
	250
	100
X\$ 25	
X\$100	
180	
TOTAL	500

OTHER THAN SMALL ENTITY	
RATE (\$)	FEE (\$)
	300
	500
	200
X\$50	
X\$200	
360	
TOTAL	

* If the difference in column 1 is less than zero, enter "0" in column 2.

APPLICATION AS AMENDED – PART II				
	(Column 1)	(Column 2)	(Column 3)	
AMENDMENT A	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	
	Total (37 CFR 1.16(i))	Minus	**	=
	Independent (37 CFR 1.16(h))	Minus	***	=
Application Size Fee (37 CFR 1.16(s))				
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))				

SMALL ENTITY	
RATE (\$)	ADDITIONAL FEE (\$)
X =	
X =	
180	
TOTAL ADD'T FEE	

OTHER THAN SMALL ENTITY	
RATE (\$)	ADDITIONAL FEE (\$)
X =	
X =	
360	
TOTAL ADD'T FEE	

	(Column 1)	(Column 2)	(Column 3)	
AMENDMENT B	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	
	Total (37 CFR 1.16(i))	Minus	**	=
	Independent (37 CFR 1.16(h))	Minus	***	=
Application Size Fee (37 CFR 1.16(s))				
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))				

SMALL ENTITY	
RATE (\$)	ADDITIONAL FEE (\$)
X =	
X =	
N/A	
TOTAL ADD'T FEE	

OTHER THAN SMALL ENTITY	
RATE (\$)	ADDITIONAL FEE (\$)
X =	
X =	
N/A	
TOTAL ADD'T FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.