

05-06-2005

Form PTO-1595 (Rev. 03/05)
OMB No. 0651-0027 (exp. 6/30/2005)

U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office



102996530

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

5-4-05

1. Name of conveying party(ies)

MAG Industrial Automation Systems, LLC
Cincinnati Machine, LLC
Lamb Technicon, LLC
Lamb Assembly and Test, LLC

Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)

Name: SILVER POINT FINANCE, LLC

Internal Address: _____

Street Address: Two Greenwich Plaza

City: Greenwich

State: Connecticut

Country: USA Zip: 06830

Additional name(s) & address(es) attached? Yes No

OPR/FINANCE
05 MAY -11 PM 2:34

3. Nature of conveyance/Execution Date(s):

Execution Date(s) 04/03/2005

- Assignment Merger
- Security Agreement Change of Name
- Joint Research Agreement
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other _____

4. Application or patent number(s):

This document is being filed together with a new application.

A. Patent Application No.(s)

10/432,892 10/228,001
10/311,574
10/936,964

B. Patent No.(s)

| | | |
|-----------|-----------|-----------|
| 6,135,682 | 6,494,822 | 4,677,869 |
| 6,810,600 | 4,601,775 | 4,664,536 |
| 6,719,503 | 4,611,934 | 4,907,754 |

Additional numbers attached? Yes No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Howard E. Silverman

Internal Address: Greenberg Traurig, LLP
Suite 2500

Street Address: 77 W. Wacker Drive

City: Chicago

State: IL Zip: 60601-1732

Phone Number: (312) 456-5202

Fax Number: (312) 456-8435

Email Address: silvermanh@gtlaw.com

6. Total number of applications and patents involved: 54

7. Total fee (37 CFR 1.21(h) & 3.41) \$2,160.00

- Authorized to be charged by credit card
- Authorized to be charged to deposit account
- Enclosed
- None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____
Expiration Date _____

b. Deposit Account Number 50-2428

Authorized User Name Howard E. Silverman

9. Signature:

Signature

April 29, 2005

Date

Howard E. Silverman
Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

66

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

05/05/2005 6:00:11 00000005 10432892

01 FC:8021

2160.00 OP

PATENT
REEL: 016513 FRAME: 0080

Continuation of Item No. 1
Name of conveying party(ies)

UNOVA Industries, Inc.
MAG Industrial Holdings, LLC
Cincinnati MAG Machine, Inc.
Lamb Tech, Inc.
Lamb Assembly, Inc.
MAG Machine International, Inc.

Continuation of Item No. 4
B. Patent No.(s)

| | |
|-----------|-----------|
| 4,787,270 | 5,265,497 |
| 4,712,953 | 5,397,523 |
| 4,719,397 | 5,269,869 |
| 4,796,195 | 5,352,306 |
| 4,795,172 | 5,314,563 |
| 4,864,883 | 5,316,612 |
| 4,943,338 | 5,738,749 |
| 4,869,774 | 5,989,384 |
| 4,877,193 | 5,739,607 |
| 4,872,619 | 5,544,556 |
| 4,954,204 | 5,454,897 |
| 5,022,952 | 6,427,098 |
| 5,110,395 | 5,829,134 |
| 5,066,352 | 6,467,154 |
| 5,078,592 | 6,782,609 |
| 5,007,504 | |
| 5,072,359 | |
| 5,102,177 | |
| 5,239,457 | |
| 5,303,549 | |
| 5,273,614 | |
| 5,326,114 | |
| D348,274 | |
| D349,758 | |
| D364,916 | |
| 5,239,886 | |

PATENT AND TRADEMARK SECURITY AGREEMENT

THIS PATENT AND TRADEMARK SECURITY AGREEMENT (together with all amendments, if any, from time to time, this "Patent and Trademark Security Agreement"), dated as of April 3, 2005, is made by MAG Industrial Automation Systems, LLC, a Delaware limited liability company, Cincinnati Machine, LLC, a Delaware limited liability company, Lamb Technicon, LLC, a Delaware limited liability company, Lamb Assembly and Test, LLC, a Delaware limited liability company, UNOVA Industries, Inc., a Nevada corporation, MAG Industrial Holdings, LLC, a Delaware limited liability company, Cincinnati MAG Machine, Inc., a Delaware corporation, Lamb Tech, Inc., a Delaware corporation, Lamb Assembly, Inc., a Delaware corporation and MAG Machine International, Inc., a Delaware corporation (each individually, a "Grantor" and collectively, the "Grantors") in favor of SILVER POINT FINANCE, LLC, a Delaware limited liability company, in its capacity as Agent ("Agent") for itself and the lenders from time to time party to the Credit and Guaranty Agreement described below ("Lenders").

WITNESSETH:

WHEREAS, pursuant to the terms of that certain Credit and Guaranty Agreement dated as of the date hereof (including all annexes, exhibits and schedules thereto, as from time to time amended, restated, supplemented or otherwise modified, the "Domestic Credit Agreement"), by and among, the Grantors, as Borrowers and Guarantors and the Agent, as agent for the Lenders from time to time party thereto, such Lenders have agreed to make Advances and incur Letter of Credit Obligations on behalf of the Borrowers; and

WHEREAS, pursuant to the terms of that certain Credit and Guaranty Agreement dated as of the date hereof (including all annexes, exhibits and schedules thereto, as from time to time amended, restated, supplemented or otherwise modified, the "Foreign Credit Agreement" and, together with the Domestic Credit Agreement, each individually, a "Credit Agreement" and collectively, the "Credit Agreements"), by and among (i) MAG International Industrial Automation Systems, S.à.r.l., a limited liability company formed under the laws of Luxembourg (the "Foreign Borrower"); (ii) MAG International Holdings, S.à.r.l., a limited liability company formed under the laws of Luxembourg ("MAG-Lux"), "Caroline" Einhundertdritte Vermögensverwaltungsgesellschaft mbH, a limited liability company organized under the laws of Germany, registered in commercial register of the Hamburg local court under HRB 93117 ("Caroline"), Lamb Technicon, Ltd, a corporation registered in Ontario, Canada under Number 6940651 ("Lamb-Can"), Cincinnati Machine Limited, a company registered in England and Wales under Number 5322930 ("CML"), Lamb Technicon Limited, a company registered in England and Wales under Number 5334478 ("Lamb-UK"), MAGUS GmbH, a limited liability company formed under the laws of Switzerland ("MAGUS"), MAGIP GmbH, a limited liability company formed under the laws of Switzerland ("MAGIP"), and Cincinnati Machine Korea Corp., a Korean corporation ("Lamb-Korea" and, together with MAG-Lux, Caroline, Lamb-Can, CML, Lamb-UK, MAGUS, and MAGIP, each a "Foreign Guarantor" and collectively, the "Foreign Guarantors"); and (iii) the Agent, as agent for the Lenders from time to time party thereto, such Lenders have agreed to make Advances and incur Letter of Credit Obligations on

behalf of the Foreign Borrower, some or all of which Advances and Letter of Credit Obligations will directly benefit the Foreign Guarantors; and

WHEREAS, pursuant to the terms of that certain Guaranty Agreement of even date herewith (as from time to time amended, restated, supplemented or otherwise modified, the "Guaranty Agreement"), executed by each of the Grantors in favor of the Agent, for the benefit of the Lenders under the Foreign Credit Agreement, the Grantors have guaranteed the payment and performance of all obligations of the Foreign Borrower and Foreign Guarantors under the Foreign Credit Agreement; and

WHEREAS, in order to induce Agent and Lenders to enter into the Credit Agreements and the other Loan Documents and to make the Advances and incur the Letter of Credit Obligations to and for the benefit of the Grantors and the Foreign Borrower as provided for in the respective Credit Agreements, Grantors have agreed to grant a continuing security interest in and Lien on the Intellectual Property Collateral (as hereinafter defined) to secure the Obligations, pursuant to that certain Security Agreement of even date herewith (the "Security Agreement");

WHEREAS, each of the Grantors is a Credit Party under the Domestic Credit Agreement and affiliated by common ownership with each of the other Grantors and the Foreign Borrowers and the Foreign Guarantors; and

NOW, THEREFORE, in consideration of the premises and mutual covenants herein contained, to induce Lenders to make the Advances and incur the Letter of Credit Obligations under each of the Credit Agreements, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereto agree as follows:

1. DEFINED TERMS. All capitalized terms used but not otherwise defined herein have the meanings given to them in the Security Agreement.

2. GRANT OF SECURITY INTEREST IN INTELLECTUAL PROPERTY COLLATERAL. (a) To secure the prompt and complete payment, when due, and performance and observance of all the Obligations, each Grantor hereby grants, assigns, conveys, mortgages, pledges, hypothecates and transfers to Agent, for itself and the benefit of the Lenders, a continuing first priority security interest in and Lien (as applicable) upon all of its right, title and interest in, to and under the following, whether presently existing or hereafter created or acquired by or arising in favor of such Grantor and whether owned or consigned by or to, or licensed from or to, such Grantor (collectively, the "Intellectual Property Collateral"):

(i) all of its now owned and hereafter acquired or arising and filed patents and patent applications ("Patents"), including without limitation, each patent and application listed on Schedule I hereto;

(ii) all of its Patent Licenses to which it is a party including those referred to on Schedule I hereto;

(iii) all of its now owned and hereafter acquired or arising and filed trademarks, service marks, trademark or service mark registrations, trade names, and

trademark and service mark applications ("Trademarks"), including without limitation, common law rights and each mark, registration and application listed on Schedule II hereto;

(iv) all of its Trademarks and Trademark Licenses to which it is a party including those referred to on Schedule II hereto;

(v) all reissues, continuations, divisions, renewals or extensions of the foregoing;

(vi) all goodwill of the business connected with the use of, and symbolized by, each Trademark, and each Trademark License; and

(vii) all products and proceeds of the foregoing, including, without limitation, any claim by such Grantor against third parties for past, present or future (A) infringement or dilution of any Intellectual Property Collateral, and (B) injury to the goodwill associated with any Intellectual Property Collateral.

(b) In addition, to secure the prompt and complete payment, performance and observance of the Obligations and in order to induce Agent and Lenders as aforesaid, each Grantor hereby grants to Agent, for itself and the benefit of Lenders, a right of setoff, against the property of such Grantor held by Agent or any Lender, consisting of property described above in Section 2(a) now or hereafter in the possession or custody of or in transit to Agent or any Lender, for any purpose, including safekeeping, collection or pledge, for the account of such Grantor, or as to which such Grantor may have any right or power.

3. REPRESENTATIONS AND WARRANTIES. Each Grantor, jointly and severally, represents and warrants that, as of the Closing Date, each Grantor owns or has rights to use all Intellectual Property necessary to continue to conduct its business as now conducted by it or proposed to be conducted by it. Each Trademark registered with or that is the subject of an application with the United States Patent and Trademark Office, or its foreign equivalents, as applicable, each Patent and each License is listed, together with application or registration numbers, as applicable, in Schedule I and Schedule II, respectively, hereto. Each Grantor, jointly and severally, represents and warrants that, except as set forth in Disclosure Schedule (3.15) to the Domestic Credit Agreement, all Patents and Trademarks which are necessary or material to the operations of such Grantor have been registered or are pending with the United States Patent and Trademark Office or its foreign equivalents, as applicable. Each Patent granted by and each Trademark registered with or that is the subject of an application with the United States Patent and Trademark Office or its foreign equivalents is valid and enforceable, has not been adjudged invalid or unenforceable, in whole or in part, and is not at this time the subject of any challenge to its validity or enforceability except for arguments submitted by the United States Patent and Trademark Office, or its foreign equivalents in the ordinary course of prosecuting the patents or as set forth in Disclosure Schedule 3.15 to the Domestic Credit Agreement. Each Grantor conducts its business and affairs without infringement of or interference with any Intellectual Property of any other Person in any material respect. Except as set forth in Disclosure Schedule (3.15) to the Domestic Credit Agreement, no Grantor is aware of any infringement claim by any other Person with respect to any of the Intellectual Property Collateral. This Patent and

Trademark Security Agreement is effective to create a valid and continuing security interest in and Lien on (as applicable) and, upon the filing hereof with the United States Patent and Trademark Office and the filing of appropriate financing statements listed on Schedule I to the Security Agreement, perfected security interests in favor of Agent in all of Grantors' Patents and Trademarks and such perfected security interests are enforceable as such as against any and all creditors of, and purchasers from, Grantors. Upon filing of this Patent and Trademark Security Agreement with the United States Patent and Trademark Office within ninety (90) days of the creation of each security interest, as applicable and the filing of appropriate financing statements listed on Schedule I to the Security Agreement, all action necessary or otherwise requested by Agent to protect and perfect Agent's security interest in and Lien on (as applicable) Grantor's Patents and Trademarks shall have been duly taken.

The security interests granted pursuant to this Patent and Trademark Security Agreement are granted in conjunction with the security interest granted to Agent pursuant to the Security Agreement. In addition to any representations and warranties contained herein, each Grantor hereby acknowledges and affirms the representations and warranties made to Agent with respect to the Intellectual Property Collateral made in the Security Agreement, the terms and provisions of which are incorporated by reference herein as if fully set forth herein.

4. COVENANTS. The security interests granted pursuant to this Patent and Trademark Security Agreement are granted in conjunction with the security interests granted to Agent pursuant to the Security Agreement. In addition to the covenants contained herein, each Grantor hereby acknowledges and affirms the covenants of such Grantor contained in the Security Agreement with respect to the Intellectual Property Collateral, the terms and provisions of which are incorporated herein as if fully set forth herein. Grantors shall have the duty to prosecute diligently any applications to register any of the Intellectual Property Collateral, and to do any and all acts which are reasonably necessary or desirable to preserve and maintain all rights in the Intellectual Property Collateral. Any expenses incurred in connection with the Intellectual Property Collateral shall be borne solely by Grantors. Grantors shall not abandon any Intellectual Property Collateral without the prior written consent of Lenders.

5. SECURITY AGREEMENT. The security interests granted pursuant to this Patent and Trademark Security Agreement are granted in conjunction with the security interests granted to Agent pursuant to the Security Agreement. Each Grantor hereby acknowledges and affirms that the rights and remedies of Agent with respect to the security interest in the Intellectual Property Collateral made and granted hereby are more fully set forth in the Security Agreement, the terms and provisions of which are incorporated by reference herein as if fully set forth herein.

6. REINSTATEMENT. This Patent and Trademark Security Agreement shall remain in full force and effect and continue to be effective should any petition be filed by or against any Grantor or Credit Party for liquidation or reorganization, should any Grantor or Credit Party become insolvent or make an assignment for the benefit of any creditor or creditors or should a receiver or trustee be appointed for all or any significant part of any Grantor's or Credit Party's assets, and shall continue to be effective or be reinstated, as the case may be, if at any time payment and performance of the Obligations, or any part thereof, is, pursuant to

applicable law, rescinded or reduced in amount, or must otherwise be restored or returned by any obligee of the Obligations, whether as a "voidable preference," "fraudulent conveyance," or otherwise, all as though such payment or performance had not been made. In the event that any payment, or any part thereof, is rescinded, reduced, restored or returned, the Obligations shall be reinstated and deemed reduced only by such amount paid and not so rescinded, reduced, restored or returned.

7. **NOTICES.** Whenever it is provided herein that any notice, demand, request, consent, approval, declaration or other communication shall or may be given to or served upon any of the parties by any other party, or whenever any of the parties desires to give or serve upon another any such communication with respect to this Patent and Trademark Security Agreement, each such notice, demand, request, consent, approval, declaration or other communication shall be in writing and shall be addressed to the party to be notified at the address set forth in Annex H to the Domestic Credit Agreement (or such other address as may be substituted by notice given in the manner required by Section 12.10 of the Domestic Credit Agreement), and given in the manner required by Section 12.10 of the Domestic Credit Agreement.

8. **ADDITIONAL GRANTORS.** The initial Grantors hereunder are the Credit Parties as are signatories hereto on the date hereof. From time to time subsequent to the date hereof, additional Credit Parties may become parties hereto, as additional Grantors (each, an "Additional Grantor"), by executing a counterpart of this Patent and Trademark Security Agreement substantially in the form of Exhibit A attached hereto. Upon delivery of any such counterpart to Agent, notice of which is hereby waived by the Grantors, each Additional Grantor shall be a Grantor and shall be as fully a party hereto as if such Additional Grantor were an original signatory hereto. Each Grantor expressly agrees that its obligations arising hereunder shall not be affected or diminished by the addition or release of any other Grantor hereunder nor by any election of Agent not to cause any Credit Party or any other Person to become an Additional Grantor hereunder. This Patent and Trademark Security Agreement shall be fully effective as to any Grantor that is or becomes a party hereto regardless of whether any other Person becomes or fails to become or ceases to be a Grantor hereunder.

9. **TERMINATION OF THIS SECURITY AGREEMENT.** Subject to Section 6 hereof, this Patent and Trademark Security Agreement shall terminate upon the Termination Date. Upon the Grantor's request, the Agent and/or the Lenders shall within a reasonable time after any such termination execute and deliver to the Grantors such documents and instruments as are reasonably necessary to evidence such termination and release of the security interest granted herein on any applicable public record.

10. **NO STRICT CONSTRUCTION.** The parties hereto have participated jointly in the negotiation and drafting of this Patent and Trademark Security Agreement. In the event an ambiguity or question of intent or interpretation arises, this Patent and Trademark Security Agreement shall be construed as if drafted jointly by the parties hereto and no presumption or burden of proof shall arise favoring or disfavoring any party by virtue of the authorship of any provisions of this Patent and Trademark Security Agreement. This Patent and Trademark Security Agreement is to be read, construed and applied together with the Domestic

Credit Agreement and the other Loan Documents which, taken together, set forth the complete understanding and agreement of Agent, Lenders and Grantors with respect to the matters referred to herein and therein. Except as otherwise specifically provided, if any provision contained in this Patent and Trademark Security Agreement or any other Loan Document, conflicts with any provision in the Domestic Credit Agreement, the provision in the Domestic Credit Agreement shall govern and control.

11. ADVICE OF COUNSEL. Each of the parties represents to each other party hereto that it has discussed this Patent and Trademark Security Agreement with its counsel.

12. REQUESTED RECORDATION. The Grantors authorize and request that the United States Patent and Trademark Office (and any state, foreign or other authority to which this Patent and Trademark Security Agreement is submitted) record this Patent and Trademark Security Agreement (and any corresponding or separate forms of such jurisdiction) in order to publicly reflect the interests of the Agent and the Lenders in the Intellectual Property Collateral.

13. GOVERNING LAW. THIS AGREEMENT AND THE RIGHTS AND OBLIGATIONS OF THE PARTIES HEREUNDER SHALL BE CONSTRUED IN ACCORDANCE WITH AND BE GOVERNED BY THE LAWS OF THE STATE OF NEW YORK, WITHOUT GIVING EFFECT TO PRINCIPLES OF CONFLICTS OF LAW, AND EACH PARTY EXPRESSLY WAIVES ANY OBJECTION IT MAY HAVE TO SUCH JURISDICTION OR THE CONVENIENCE OF SUCH FORUM.

14. POWER OF ATTORNEY. The Grantors hereby irrevocably grant to the Agent, for the ratable benefit of the Lenders, a power of attorney, to act as such Grantors' attorney-in-fact, with full authority in the name, place and stead of each such Grantor, from time to time in the Agent's discretion, to take any action and to execute any instrument that the Agent may reasonably deem necessary or advisable to accomplish the purposes of this Patent and Trademark Security Agreement. This authority includes, without limitation, the following:

(a) To modify or amend (in the sole discretion of the Agent and the Lenders and without first obtaining such Grantors' approval thereof or signature thereto) Schedule I hereof, as appropriate and as otherwise permitted herein, to include references to any registered intellectual property (or application or license therefor) acquired by such Grantors after the execution hereof or to delete any reference to any Intellectual Property Collateral in which such Grantors no longer have or claim any right, title or interest; and

(b) To execute any document required to acknowledge, register or perfect the security interest of the Agent and the Lenders in any part of the Intellectual Property Collateral without the signature of such Grantors unless prohibited by applicable law.

The foregoing power of attorney is coupled with an interest and is irrevocable until the obligations secured hereby have been unconditionally and indefeasibly paid or performed in full and the Domestic Credit Agreement has been terminated, at which time the foregoing power of attorney shall also terminate.

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IN WITNESS WHEREOF, each Grantor has caused this Patent and Trademark Security Agreement to be executed and delivered by its duly authorized officers as of the date first set forth above.

**MAG INDUSTRIAL AUTOMATION
SYSTEMS, LLC**

By: James Benjamin
Name: James Benjamin
Title: Executive Vice President

CINCINNATI MACHINE, LLC

By: James Benjamin
Name: James Benjamin
Title: Executive Vice President

LAMB TECHNICON, LLC

By: James Benjamin
Name: James Benjamin
Title: Executive Vice President

LAMB ASSEMBLY AND TEST, LLC

By: James Benjamin
Name: James Benjamin
Title: Executive Vice President

UNOVA INDUSTRIES, INC.

By: James Benjamin
Name: James Benjamin
Title: Executive Vice President

MAG INDUSTRIAL HOLDINGS, LLC

By: James Benjamin
Name: James Benjamin
Title: Authorized Officer

CINCINNATI MAG MACHINE, INC.

By: James Benjamin
Name: James Benjamin
Title: Authorized Officer

LAMB TECH, INC.

By: James Benjamin
Name: James Benjamin
Title: Authorized Officer

LAMB ASSEMBLY, INC.

By: James Benjamin
Name: James Benjamin
Title: Authorized Officer

MAG MACHINE INTERNATIONAL, INC.

By: James Benjamin
Name: James Benjamin
Title: Authorized Officer

Acknowledged and Agreed:

SILVER POINT FINANCE, LLC, as Agent

By: Silver Point Capital, L.P., its
managing member

By: Silver Point Capital
Management, LLC, its general
partner

By: Edward A. Mulé
Name: Edward A. Mulé
Title: Managing Member

SCHEDULE I
to
PATENT AND TRADEMARK SECURITY AGREEMENT

Cincinnati Machine Patents and Patent Applications

Division CIN Cincinnati Machine

| | | | | |
|-------------|----------|-------------------|--|--------------------|
| Case Number | Attorney | Disclosure Status | Title | Inventors |
| CIN-0001 | AER | Maintenance | Multi-spindle Phase Controlled Machining | McCalmont, Paul E. |

| | | | | | | | | |
|---------------------|------------------|-------------|---------|-------------|-------------|-------|-------|-------------|
| Sub | Case Application | Filing | Patent | Issue | Expiration | Owner | Agent | Agent Ref # |
| Country Case Status | Type Number | Date | Number | Date | Date | | | |
| US US Granted | ORD 09/483374 | 14-Jan-2000 | 6135682 | 24-Oct-2000 | 14-Jan-2020 | UIP | | |
| | | | | LE | | | | |

Division CIN Cincinnati Machine

| Case Number | Attorney | Disclosure Status | Title | Inventors |
|-------------|----------|-------------------|--|-------------------------------------|
| CIN-0002 | WOR | Filed | Apparatus and Method for Monitoring Alignment of a CNC Machine Spindle Trunion | Horwarth, William Howard, Walter |

Keyword(s):

test keyword

| Sub Country Case Status | Case Application Type Number | Filing Date | Patent Number | Issue Date | Expiration Date | Owner | Agent Ref # |
|-------------------------|------------------------------|-------------|---------------|-------------|-----------------|--------|-------------|
| US US Granted | ORD 09/496249 | 02-Feb-2000 | 6810600 | 02-Nov-2004 | 02-Feb-2020 | LE UIP | |

Division CIN Cincinnati Machine

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|-------------|----------|-------------------|---|--|
| Case Number | Attorney | Disclosure Status | Title | Inventors |
| CIN-0003 | AER | Filed | Method and Device for Calibrating Rotary Axis | Comer, Paul Purtell, David A. Shivaswamy, Satish C |

| Sub Country Case Status | Case Application Type Number | Filing Date | Patent Number | Issue Date | Expiration Tax Date | Owner | Agent Ref # |
|-------------------------|------------------------------|-------------|---------------|------------|---------------------|-------|-------------|
| EP | PCT 01939606.8 | 29-May-2001 | | | | UIP | G00010761EP |
| US | PCT 10/296368 | 29-May-2001 | | | LE | UIP | |

Division CIN Cincinnati Machine

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|-------------|----------|-------------------|--|---|
| Case Number | Attorney | Disclosure Status | Title | Inventors |
| CIN-0005 | CNTL | Filed | Control Embedded Machine Condition Monitor | Curless, Richard A. McCalmont, Paul E. |

| Sub Case Status | Country | Case Type | Application Number | Filing Date | Patent Number | Issue Date | Tax | Expiration Date | Owner | Agent Ref # |
|-----------------|---------|-----------|--------------------|-------------|---------------|------------|-----|-----------------|-------|-----------------|
| CA | CA | Pending | PCT 2428168 | 30-Nov-2001 | | | | | UIP | |
| EP | EP | Published | PCT 01992128.7 | 30-Nov-2001 | | | | | UIP | FBO G00010891E1 |
| US | US | Allowed | PCT 10/432892 | 30-Nov-2001 | | | LE | | UIP | |

Division CTN Cincinnati Machine

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|--------------------|-----------------|--------------------------|---|---|
| Case Number | Attorney | Disclosure Status | Title | Inventors |
| CIN-0009 | AER | Filed | Method for Determining Effective Coefficient of Thermal Expansion | Curless, Richard A. Shivaswamy, Satish C |

| | | | | | | | | |
|----------------------------|-------------------------|---------------|---------------|--------------|-------------------|--------------|--------------|--------------|
| Sub | Case Application | Filing | Patent | Issue | Expiration | Owner | Agent | Ref # |
| Country Case Status | Type Number | Date | Number | Date | Date | | | |
| US | PCT | 10/311574 | | | | | | |
| WO | ORD | US01/20833 | | | LE | UIP | | UIP |
| | | 29-Jun-2001 | | | | | | |
| | | 29-Jun-2001 | | | | | | |

Division CIN Cincinnati Machine

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|-------------|----------|-------------------|-------------------------------|--|
| Case Number | Attorney | Disclosure Status | Title | Inventors |
| CIN-0011 | MEC DAM | Filed | Tuned Damped Absorber Support | Burt, Dennis A. Kohring, Mark D. Loretta, Jr., Miles McCalmont, Paul E. |

| Sub | Country | Case Status | Type | Application Number | Filing Date | Patent Number | Issue Date | Tax Date | Expiration Date | Owner | Agent Ref # |
|-----|---------|-------------|------|--------------------|-------------|---------------|-------------|----------|-----------------|-------|-------------|
| CA | W | Pending | PCT | 2458232 | 23-Aug-2002 | | | | | | |
| EP | W | Published | PCT | 02757334.4 | 23-Aug-2002 | | | | | | |
| MX | W | Pending | PCT | 2004/002014 | 23-Aug-2002 | | | | | | |
| US | US | Granted | ORD | 09/948728 | 07-Sep-2001 | 6719503 B1 | 13-Apr-2004 | LE | 07-Sep-2021 | UIP | |
| WO | W | Pending | ORD | US02/26840 | 23-Aug-2002 | | | | | UIP | |

Division CIN Cincinnati Machine

Case

Number

CIN-0015

Attorney

TOO

Disclosure Status

Maintenance

Title

Tool Retention Mechanism

Inventors

Hopkins, Mark F.

Sub

Country Case Status

US US Granted

Case Application

Type Number

ORD 09/653724

Filing

Date

01-Sep-2000

Patent

Number

6494822

Issue

Date

17-Dec-2002

Tax

LE

07-Jan-2021

Expiration

Date

07-Jan-2021

Owner

UIP

Agent

Agent Ref #

Division CIN Cincinnati Machine

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|-------------|----------|-------------------|-------------------------------|---|
| Case Number | Attorney | Disclosure Status | Title | Inventors |
| CIN-0401 | | Open | Process for Laying Fiber Tape | Grimshaw, Michael N. Hecht, James R. Rust, Ralph J. |

| | | | | | | | | | |
|-----------------|-----------|--------------------|-------------|---------------|------------|-----------------|-----|-------|-------------|
| Sub Case Status | Case Type | Application Number | Filing Date | Patent Number | Issue Date | Expiration Date | Tax | Owner | Agent Ref # |
| US | Pending | ORD 10/936964 | 09-Sep-2004 | | | | LE | UIP | |

Division CIN Cincinnati Machine

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|-------------|----------|-------------------|----------------------|-----------|
| Case Number | Attorney | Disclosure Status | Title | Inventors |
| CIN-3005 | | Open | Fiber Laying Machine | |

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|---------|-----------------|------------------------------|-------------|---------------|------------|----------|-----------------|-------|-------------|
| Country | Sub Case Status | Case Application Type Number | Filing Date | Patent Number | Issue Date | Tax Date | Expiration Date | Owner | Agent Ref # |
| US | Unfiled | ORD | | | | LE | | UNOVA | |

Division CIN Cincinnati Machine

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|-------------|----------|-------------------|--------------------|------------------|
| Case Number | Attorney | Disclosure Status | Title | Inventors |
| CIN-8321 | DCS | Maintenance | Tap Lube Dispenser | Ackley, H. (CMU) |

| | | | | | | | | |
|---------------------|------------------|-------------|---------|-------------|-------------|-------|-------|-------------|
| Sub | Case Application | Filing | Patent | Issue | Expiration | Owner | Agent | Agent Ref # |
| Country Case Status | Type Number | Date | Number | Date | Date | | | |
| CA CA Granted | ORD 479379 | 17-Apr-1985 | 1225260 | 11-Aug-1987 | 11-Aug-2004 | UIP | SCOT | |

Division CIN Cincinnati Machine

Case Number

Attorney

Disclosure Status

Title

Inventors

CIN-8333

TAPE

Maintenance

Composite Tape Laying Machine and Method

Grone, Robert J.
Schnell, Leonard R.
Vearil, Wayne L.

| Sub | Country | Case Status | Type | Application Number | Filing Date | Patent Number | Issue Date | Expiration Date | Tax | Owner | Agent | Agent Ref # |
|-----|---------|-------------|------|--------------------|-------------|---------------|-------------|-----------------|-----|-------|-------|-------------|
| CA | CA | Granted | ORD | 469273 | 04-Dec-1984 | 1236385 | 10-May-1988 | 10-May-2005 | LE | UIP | SCOT | |
| US | US | Granted | ORD | 06/557910 | 05-Dec-1983 | 4557783 | 10-Dec-1985 | 05-Dec-2003 | LE | UIP | | |

Division CIN Cincinnati Machine

Case Number CIN-8409
 Attorney TAPE
 Disclosure Status Maintenance
 Title Strand Laying Head
 Inventors Pugh, John H.

| Sub Country Case Status | Case Application Type Number | Filing Date | Patent Number | Issue Date | Tax | Expiration Date | Owner | Agent Ref # |
|-------------------------|------------------------------|-------------|---------------|-------------|-----|-----------------|-------|-------------|
| CA | ORD 475696 | 04-Mar-1985 | 1255202 | 06-Jun-1989 | LE | 06-Jun-2006 | UIP | SCOT |
| US | ORD 06/586419 | 05-Mar-1984 | 4569716 | 11-Feb-1986 | LE | 05-Mar-2004 | UIP | |

Division CIN Cincinnati Machine

Case Number CIN-8412

Attorney HOR Disclosure Status Filed Title Damped Leveling Pad

Inventors Hasz, J. Piotrowski, Tadeusz

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|---------------------|------------------|-------------|---------|-------------|-------------|-------|-------|-------------|
| Sub | Case Application | Filing | Patent | Issue | Expiration | Owner | Agent | Agent Ref # |
| Country Case Status | Type Number | Date | Number | Date | Date | | | |
| CA CA Granted | ORD 476226 | 11-Mar-1985 | 1236812 | 17-May-1988 | 17-May-2005 | UIP | | |

Division CIN Cincinnati Machine

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|-------------|----------|-------------------|------------------------|------------------|
| Case Number | Attorney | Disclosure Status | Title | Inventors |
| CIN-8463 | TAPE | Filed | Tape Made of Flat Tons | Wisbey, Jerry D. |

| | | | | | | | | |
|-----|------------------|-------------|---------------|-------------|-----------------|-------|-------|-------------|
| Sub | Case Application | Filing Date | Patent Number | Issue Date | Expiration Date | Owner | Agent | Agent Ref # |
| CA | ORD 484206 | 17-Jun-1985 | 1259895 | 26-Sep-1989 | 26-Sep-2006 | UIP | SCOT | |

Division CIN Cincinnati Machine

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|-------------|----------|-------------------|---|------------------|
| Case Number | Attorney | Disclosure Status | Title | Inventors |
| CIN-8499 | MEC SPIN | Maintenance | Spring Centering Device for Tool Spindles | Bone, Kendall F. |

| | | | | | | | | |
|---------------------|------------------|-------------|---------|-------------|-------------|-------|-------|-------------|
| Sub | Case Application | Filing | Patent | Issue | Expiration | Owner | Agent | Agent Ref # |
| Country Case Status | Type Number | Date | Number | Date | Date | | | |
| US US Granted | ORD 06/689260 | 07-Jan-1985 | 4605349 | 12-Aug-1986 | 07-Jan-2005 | UIP | | |

Division CIN Cincinnati Machine

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|-------------|----------|-------------------|--|------------------|
| Case Number | Attorney | Disclosure Status | Title | Inventors |
| CIN-8508 | TAPE | Maintenance | Compliant Presser Member for Composite Tape Laying Machine | Grone, Robert J. |

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|-------------------------|------------------------------|-------------|---------------|-------------|-----------------|-----|-------|-------------|
| Sub Country Case Status | Case Application Type Number | Filing Date | Patent Number | Issue Date | Expiration Date | Tax | Owner | Agent Ref # |
| US US Granted | ORD 06/740708 | 03-Jun-1985 | 4601775 | 22-Jul-1986 | 03-Jun-2005 | LE | UIP | |

Division CIN Cincinnati Machine

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|-------------|----------|-------------------|--------------------------------|---|
| Case Number | Attorney | Disclosure Status | Title | Inventors |
| CIN-8512 | MEC SPIN | Maintenance | Device for Preloading Bearings | Maaack, Horst E. Piotrowski, Tadeusz |

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|---------------------|------------------|-------------|---------|-------------|-------------|-------|-------------|
| Sub | Case Application | Filing | Patent | Issue | Expiration | Owner | Agent Ref # |
| Country Case Status | Type Number | Date | Number | Date | Date | | |
| US US Granted | ORD 06/773753 | 06-Sep-1985 | 4611934 | 16-Sep-1986 | 06-Sep-2005 | UIP | |
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Division CIN Cincinnati Machine

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|-------------|----------|-------------------|-----------------|--------------------|
| Case Number | Attorney | Disclosure Status | Title | Inventors |
| CIN-8519 | MEC BAL | Maintenance | Linear Actuator | Mayfield, Ralph W. |

| | | | | | | | |
|-------------------------|------------------------------|-------------|---------------|-------------|-----------------|-------|-------------|
| Sub Country Case Status | Case Application Type Number | Filing Date | Patent Number | Issue Date | Expiration Date | Owner | Agent Ref # |
| US US Granted | ORD 06/801667 | 25-Nov-1985 | 4677869 | 07-Jul-1987 | 25-Nov-2005 | UIP | |

Division CIN Cincinnati Machine

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|-------------|----------|-------------------|------------------------|-------------------|
| Case Number | Attorney | Disclosure Status | Title | Inventors |
| CIN-8520 | MEC DAM | Maintenance | Compound Damper System | Kamman, Joseph T. |

| | | | | | | | |
|-------------------------|------------------------------|-------------|---------------|-------------|-----------------|-------|-------------|
| Sub Country Case Status | Case Application Type Number | Filing Date | Patent Number | Issue Date | Expiration Date | Owner | Agent Ref # |
| US US Granted | ORD 06/801668 | 25-Nov-1985 | 4664536 | 12-May-1987 | 25-Nov-2005 | UIP | |

Division CIN Cincinnati Machine

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|-------------|----------|-------------------|-------------------------|----------------------|
| Case Number | Attorney | Disclosure Status | Title | Inventors |
| CIN-8527 | FIBR | Maintenance | Fiber Placement Machine | Vaniglia, Mario/Milo |

| | | | | | | | | |
|---------------------|------------------|-------------|---------|-------------|-------------|-------|-------|-------------|
| Sub | Case Application | Filing | Patent | Issue | Expiration | Owner | Agent | Agent Ref # |
| Country Case Status | Type Number | Date | Number | Date | Date | | | |
| US US Granted | ORD 06/808911 | 13-Dec-1985 | 4907754 | 13-Mar-1990 | 13-Mar-2007 | UIP | | |

Division CIN Cincinnati Machine

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|-------------|----------|-------------------|---------------------|-----------------|
| Case Number | Attorney | Disclosure Status | Title | Inventors |
| CIN-8705 | TOO AER | Maintenance | Robotic Manipulator | Suica, David E. |

| | | | | | | | | |
|-------------------------|------------------------------|-------------|---------------|-------------|----------|-----------------|-------|-------------|
| Sub Country Case Status | Case Application Type Number | Filing Date | Patent Number | Issue Date | Tax Date | Expiration Date | Owner | Agent Ref # |
| US US Granted | ORD 07/013378 | 11-Feb-1987 | 4787270 | 29-Nov-1988 | LE | 11-Feb-2007 | UIP | FRST |

Division CIN Cincinnati Machine

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|-------------|----------|-------------------|---|--|
| Case Number | Attorney | Disclosure Status | Title | Inventors |
| CIN-8712 | MAC | Maintenance | Method and Apparatus for Aligning Cutting Tools | Weisgerber, Paul J. Witzel, John R. |

| | | | | | | | | |
|-------------------------|------------------------------|-------------|---------------|-------------|-----------------|-----|-------|-------------|
| Sub Country Case Status | Case Application Type Number | Filing Date | Patent Number | Issue Date | Expiration Date | Tax | Owner | Agent Ref # |
| US US Granted | ORD 07/016414 | 19-Feb-1987 | 4712953 | 15-Dec-1987 | 19-Feb-2007 | LE | UIP | LEA |

Division CIN Cincinnati Machine

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|-------------|----------|-------------------|---|---|
| Case Number | Attorney | Disclosure Status | Title | Inventors |
| CIN-8717 | TAPE | Maintenance | Method and Apparatus for Tape Dispensing Servo Tracking Control | Kneifel II, Ralph W. Swope, David C. |

| | | | | | | | | |
|-------------------------|------------------------------|-------------|---------------|-------------|-----------------|-----|-------|-------------|
| Sub Country Case Status | Case Application Type Number | Filing Date | Patent Number | Issue Date | Expiration Date | Tax | Owner | Agent Ref # |
| US US Granted | ORD 07/034887 | 06-Apr-1987 | 4719397 | 12-Jan-1988 | 06-Apr-2007 | LE | UIP | WOOD |

Division CIN Cincinnati Machine

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|-------------|----------|-------------------|---|----------------------|
| Case Number | Attorney | Disclosure Status | Title | Inventors |
| CIN-8718 | MAC | Maintenance | Method for Machining with Improved Accuracy | Haggerty, William A. |

| | | | | | | | |
|-------------------------|------------------------------|-------------|---------------|-------------|-----------------|-------|-------------|
| Sub Country Case Status | Case Application Type Number | Filing Date | Patent Number | Issue Date | Expiration Date | Owner | Agent Ref # |
| US US Granted | ORD 07/049182 | 13-May-1987 | 4796195 | 03-Jan-1989 | 13-May-2007 | UIP | |

Division CIN Cincinnati Machine

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|-------------|----------|-------------------|--------------------------------------|---------------|
| Case Number | Attorney | Disclosure Status | Title | Inventors |
| CIN-8731 | MEC BAL | Maintenance | Grease Seal for a Power Screw System | Brande, David |

| | | | | | | | | |
|-------------------------|------------------------------|-------------|---------------|-------------|-----------------|----------|-------|-------------|
| Sub Country Case Status | Case Application Type Number | Filing Date | Patent Number | Issue Date | Expiration Date | Tax Date | Owner | Agent Ref # |
| US US Granted | ORD 07/129492 | 07-Dec-1987 | 4795172 | 03-Jan-1989 | 07-Dec-2007 | LE | UIP | LEA |

Division CIN Cincinnati Machine

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|--------------------|-----------------|--------------------------|---|--------------------|
| Case Number | Attorney | Disclosure Status | Title | Inventors |
| CIN-8802 | MEC BAL | Maintenance | Recirculating Ball Nut for Power Screw System | Mayfield, Ralph W. |

| | | | | | | | | |
|----------------|-------------------------|---------------|---------------|--------------|-------------------|--------------|--------------|--------------------|
| Sub | Case Application | Filing | Patent | Issue | Expiration | Owner | Agent | Agent Ref # |
| US | ORD 07/142571 | 11-Jan-1988 | 4864883 | 12-Sep-1989 | 11-Jan-2008 | UIP | LEA | |
| Country | Case Status | Date | Number | Date | Date | Ref # | Ref # | Ref # |
| US | Granted | | | | | | | |

Division CIN Cincinnati Machine

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|-------------|----------|-------------------|---|-------------------------------------|
| Case Number | Attorney | Disclosure Status | Title | Inventors |
| CIN-8822 | FIBR | Filed | Multi-Tow Fiber Placement Machine with Full Band width Clamp, Cut, and Restart Capability | Hayes, Helen M. Wisbey, Jerry D. |

| | | | | | | | |
|-------------------------|------------------------------|-------------|---------------|-------------|---------------------|-------|-------------|
| Sub Country Case Status | Case Application Type Number | Filing Date | Patent Number | Issue Date | Expiration Tax Date | Owner | Agent Ref # |
| US US Granted | ORD 07/248702 | 26-Sep-1988 | 4943338 | 24-Jul-1990 | 26-Sep-2008 | UIP | |

Division CIN Cincinnati Machine

Case Number CIN-8823
 Attorney FIBR
 Disclosure Status Maintenance
 Title Compliant Presser Member for Fiber Placement Machine
 Inventors Wisbey, Jerry D.

| Country | Sub Case Status | Case Application Type Number | Filing Date | Patent Number | Issue Date | Tax | Expiration Date | Owner | Agent Ref # |
|---------|-----------------|------------------------------|-------------|---------------|-------------|-----|-----------------|-------|-------------|
| DE | DE Granted | EPC 89309724.6 | 25-Sep-1989 | P68912260.8 | 12-Jan-1994 | LE | 25-Sep-2009 | UIP | BOE |
| FR | FR Granted | EPC 89309724.6 | 25-Sep-1989 | 0361828 FR | 12-Jan-1994 | LE | 25-Sep-2009 | UIP | BOE |
| GIB | GIB Granted | EPC 89309724.6 | 25-Sep-1989 | 0361828 GB | 12-Jan-1994 | LE | 25-Sep-2009 | UIP | BOE |
| IT | IT Granted | EPC 89309724.6 | 25-Sep-1989 | 0361828 IT | 12-Jan-1994 | LE | 25-Sep-2009 | UIP | BOE |
| JP | JP Granted | ORD 247877/1989 | 22-Sep-1989 | 2914384 | 16-Apr-1999 | LE | 22-Sep-2009 | UIP | YUA |
| US | US Granted | ORD 07/248695 | 26-Sep-1988 | 4869774 | 26-Sep-1989 | LE | 26-Sep-2008 | UIP | |

Division CIN Cincinnati Machine

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|--------------------|-----------------|--------------------------|---|----------------------|
| Case Number | Attorney | Disclosure Status | Title | Inventors |
| CIN-8824 | FIBR | Maintenance | Redirect Roller Apparatus for Fiber Placement Machine | Vaniglia, Mario/Milo |

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|--------------------------------|-------------------------------------|--------------------|----------------------|-------------------|------------------------|--------------|--------------------|
| Sub Country Case Status | Case Application Type Number | Filing Date | Patent Number | Issue Date | Expiration Date | Owner | Agent Ref # |
| US US Granted | ORD 07/236417 | 25-Aug-1988 | 4877193 | 31-Oct-1989 | 25-Aug-2008 | UIP | |

Division CIN Cincinnati Machine

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|-------------|----------|-------------------|--|----------------------|
| Case Number | Attorney | Disclosure Status | Title | Inventors |
| CIN-8828 | FIBR | Maintenance | Servo Driven Redirect Roller Apparatus for Fiber Placement Machine | Vaniglia, Mario/Milo |

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|-------------------------|------------------------------|-------------|---------------|-------------|-----------------|-------|-------------|
| Sub Country Case Status | Case Application Type Number | Filing Date | Patent Number | Issue Date | Expiration Date | Owner | Agent Ref # |
| US US Granted | ORD 07/265970 | 02-Nov-1988 | 4872619 | 10-Oct-1989 | 02-Nov-2008 | UIP | |
| | | | | LE | | | |

Division CIN Cincinnati Machine

Case Number CIN-8831
 Attorney TAPE
 Disclosure Status Maintenance
 Title Presser Member for Contoured Surfaces
 Inventors Grimshaw, M.

Sub Case Status US US Granted
 Case Type Application Type Number ORD 07/275822
 Filing Date 25-Nov-1988
 Patent Number 4954204
 Issue Date 04-Sep-1990
 Expiration Date 25-Nov-2008
 Tax LE
 Owner UIP
 Agent Ref #

Division CIN Cincinnati Machine

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|-------------|----------|-------------------|-------------------------|----------------------|
| Case Number | Attorney | Disclosure Status | Title | Inventors |
| CIN-8917 | FIBR | Maintenance | Fiber Placement Machine | Vaniglia, Mario/Milo |

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|-----------------|------------------------------|-------------|---------------|-------------|-----------------|-------|-------------|
| Sub Case Status | Case Application Type Number | Filing Date | Patent Number | Issue Date | Expiration Date | Owner | Agent Ref # |
| US US Granted | ORD 07/445583 | 04-Dec-1989 | 5022952 | 11-Jun-1991 | 04-Dec-2009 | UIP | |

Division CIN Cincinnati Machine

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|-------------|----------|-------------------|----------------------|----------------|
| Case Number | Attorney | Disclosure Status | Title | Inventors |
| CIN-8918 | FIBR | Maintenance | Fiber Placement Head | Vaniglia, Milo |

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|-----------------|------------------------------|-------------|---------------|-------------|-----------------|-------|-------------|
| Sub Case Status | Case Application Type Number | Filing Date | Patent Number | Issue Date | Expiration Date | Owner | Agent Ref # |
| US US Granted | ORD 07/445201 | 04-Dec-1989 | 5110395 | 05-May-1992 | 04-Dec-2009 | UIP | |

Division CIN Cincinnati Machine

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|--------------------|-----------------|--------------------------|---|--|
| Case Number | Attorney | Disclosure Status | Title | Inventors |
| CIN-9005 | TAPE | Filed | Method and Apparatus for Forming Composite Pieces from Composite Sheet Material | Albers, Stephen J. Grimshaw, Michael N. Peterson, David A. |

| Sub Case Status | Case Application Type Number | Filing Date | Patent Number | Issue Date | Tax | Expiration Date | Owner | Agent | Agent Ref # |
|-----------------|------------------------------|-------------|---------------|-------------|-----|-----------------|-------|-------|-------------|
| JP Pending | ORD 10600/91 | 31-Jan-1991 | | | LE | | UIP | YUA | |
| US Granted | ORD 07/484728 | 23-Feb-1990 | 5066352 | 19-Nov-1991 | LE | 23-Feb-2010 | UIP | LEA | |

Division CIN Cincinnati Machine

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|-------------|----------|-------------------|-----------------------------------|--|
| Case Number | Attorney | Disclosure Status | Title | Inventors |
| CIN-9011 | TAPE | Filed | Heating System for Composite Tape | Grimshaw, Michael N. Zaffiro, Paul A. |

| | | | | | | | |
|-----------------|------------------------------|-------------|---------------|-------------|-----------------|-------|-------------|
| Sub Case Status | Case Application Type Number | Filing Date | Patent Number | Issue Date | Expiration Date | Owner | Agent Ref # |
| US US Granted | ORD 07/508380 | 09-Apr-1990 | 5078592 | 07-Jan-1992 | 09-Apr-2010 | UIP | |

Division CIN Cincinnati Machine

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|-------------|----------|-------------------|----------------------------------|----------------------|
| Case Number | Attorney | Disclosure Status | Title | Inventors |
| CIN-9012 | MEC SPIN | Filed | Lubrication Apparatus and Method | Hallbach, Raymond L. |

| | | | | | | | | |
|---------------------|------------------|-------------|---------|-------------|-------------|-------|-------|-------------|
| Sub | Case Application | Filing | Patent | Issue | Expiration | Owner | Agent | Agent Ref # |
| Country Case Status | Type Number | Date | Number | Date | Date | | | |
| US US Granted | ORD 07/507080 | 10-Apr-1990 | 5007504 | 16-Apr-1991 | 10-Apr-2010 | UIP | | |

Division CIN Cincinnati Machine

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|-------------|----------|-------------------|--|----------------------|
| Case Number | Attorney | Disclosure Status | Title | Inventors |
| CIN-9013 | TAPE | Filed | Spatially-Clocked Digital Steering Servo for Tape-Laying Machine | Kneifel II, Ralph W. |

| | | | | | | | | |
|-------------------------|------------------------------|-------------|---------------|-------------|-----------------|-------|-------|-------------|
| Sub Country Case Status | Case Application Type Number | Filing Date | Patent Number | Issue Date | Expiration Date | Owner | Agent | Agent Ref # |
| US US Granted | ORD 07/508447 | 13-Apr-1990 | 5072359 | 10-Dec-1991 | 13-Apr-2010 | UIP | WOOD | |

Division CIN Cincinnati Machine

| Case Number | Attorney | Disclosure Status | Title | Inventors |
|-------------|----------|-------------------|---|--|
| CIN-9014 | TOO | Filed | Article Gripper having Opposed Jaws Cammed Open by an Article | Dreisig, Robert C. Hallbach, Raymond L. McDonald, David I. |

| Sub Country Case Status | Case Application Type Number | Filing Date | Patent Number | Issue Date | Expiration Date | Tax Date | Owner | Agent Ref # |
|-------------------------|------------------------------|-------------|---------------|-------------|-----------------|----------|-------|-------------|
| US N1 Granted | CON 07758255 | 26-Aug-1991 | 5102177 | 07-Apr-1992 | 11-Jun-2010 | LE | UIP | |

Division CIN Cincinnati Machine

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|--------------------|-----------------|--------------------------|---|--|
| Case Number | Attorney | Disclosure Status | Title | Inventors |
| CIN-9022 | FIBR | Filed | Redirect Roller Control for Fiber Placement Machine | Steidle, Richard L. Swope, David C. |

| Sub | Country Case Status | Case Application Type Number | Filing Date | Patent Number | Issue Date | Expiration Date | Tax | Owner | Agent Ref # |
|-----|---------------------|------------------------------|-------------|---------------|-------------|-----------------|-----|-------|-------------|
| JP | JP Pending | ORD 258136/1991 | 04-Oct-1991 | | | | LE | UIP | YUA |
| US | US Granted | ORD 07/553518 | 16-Jul-1990 | 5239457 | 24-Aug-1993 | 24-Aug-2010 | LE | UIP | WOOD |

Division CIN Cincinnati Machine

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|--------------------|-----------------|--------------------------|---------------------------------|---|
| Case Number | Attorney | Disclosure Status | Title | Inventors |
| CIN-9134 | MEC ACT | Filed | Counterforce and Holding Device | Berchold, Merrill E Valvano, Dean M. |

| | | | | | | | |
|---------------------|-------------------------|---------------|---------------|--------------|-------------------|--------------|--------------------------|
| Sub | Case Application | Filing | Patent | Issue | Expiration | Owner | Agent Agent Ref # |
| Country Case Status | Type Number | Date | Number | Date | Date | | |
| US US Granted | ORD 07/740280 | 05-Aug-1991 | 5303549 | 19-Apr-1994 | 05-Aug-2011 | UIP | |
| | | LE | LE | | | | |

Division CIN Cincinnati Machine

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|--------------------|-----------------|--------------------------|---|--|
| Case Number | Attorney | Disclosure Status | Title | Inventors |
| CIN-9138 | FIBR | Filed | Tow Guide for Redirect Rollers in a Fiber Placement Machine | Grimshaw, Michael N, Vaniglia, Mario/Milo |

| | | | | | | | | | |
|--------------------------------|-------------------------------------|--------------------|----------------------|-------------------|------------------------|------------|--------------|--------------|--------------------|
| Sub Country Case Status | Case Application Type Number | Filing Date | Patent Number | Issue Date | Expiration Date | Tax | Owner | Agent | Agent Ref # |
| US US Granted | ORD 07/764269 | 23-Sep-1991 | 5273614 | 28-Dec-1993 | 23-Sep-2011 | LE | UIP | | |

Division CIN Cincinnati Machine

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|--------------------|-----------------|--------------------------|--|---------------------|
| Case Number | Attorney | Disclosure Status | Title | Inventors |
| CIN-9203 | TOO | Filed | Quickly Interchangeable Chuck with Mechanical Power Assist Clamping Capabilities | Piotrowski, Tadeusz |

| | | | | | | | | |
|--------------------------------|-------------------------------------|--------------------|----------------------|-------------------|------------------------|------------|--------------|--------------------|
| Sub Country Case Status | Case Application Type Number | Filing Date | Patent Number | Issue Date | Expiration Date | Tax | Owner | Agent Ref # |
| US US Granted | ORD 07/865380 | 08-Apr-1992 | 5326114 | 05-Jul-1994 | 08-Apr-2012 | LE | UIP | FRST |

Division CIN Cincinnati Machine

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|-------------|----------|-------------------|-------------|---|
| Case Number | Attorney | Disclosure Status | Title | Inventors |
| CIN-9207 | TOO | Filed | Tool Pocket | Curless, Richard A. Hallbach, Raymond L. |

| | | | | | | | | |
|-----------------|------------------------------|-------------|---------------|-------------|-----|-----------------|-------|-------------|
| Sub Case Status | Case Application Type Number | Filing Date | Patent Number | Issue Date | Tax | Expiration Date | Owner | Agent Ref # |
| US DA Granted | DIES 29/873042 | 23-Apr-1992 | Des.348274 | 28-Jun-1994 | NT | 28-Jun-2008 | UIP | |

Division CIN Cincinnati Machine

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|-------------|----------|-------------------|--------|--|
| Case Number | Attorney | Disclosure Status | Title | Inventors |
| CIN-9208 | TOO | Filed | Collet | Dreisig, Robert C. Hallbach, Raymond L. McDonald, David I. |

| Sub Country | Case Type | Application Number | Filing Date | Patent Number | Issue Date | Tax | Expiration Date | Owner | Agent Ref # |
|-------------|-----------|--------------------|-------------|---------------|-------------|-----|-----------------|-------|-------------|
| EP DA | Pending | 2026942 | 06-Nov-1992 | | | NT | | UIP | FBO |
| US DA | Granted | 29/873043 | 23-Apr-1992 | Des.349758 | 16-Aug-1994 | NT | 16-Aug-2008 | UIP | |
| US NI | Granted | 29/022980 | 16-May-1994 | Des.364916 | 05-Dec-1995 | NT | 05-Dec-2009 | UIP | |

Division CIN Cincinnati Machine

| Case Number | Attorney | Disclosure Status | Title | Inventors |
|-------------|----------|-------------------|--|------------------|
| CIN-9215 | MEC DRIV | Filed | Stability High Gain and Dynamic Stiffness Servo Axis Drive System and Method | Kohring, Mark D. |

| Sub Country Case Status | Case Application Type Number | Filing Date | Patent Number | Issue Date | Expiration Date | Owner | Agent Ref # |
|-------------------------|------------------------------|-------------|---------------|-------------|-----------------|-------|-------------|
| US V1 Granted | DIV 08/015620 | 09-Feb-1993 | 5239886 | 31-Aug-1993 | 03-Aug-2012 | UIP | FRST |

Division CIN Cincinnati Machine

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|-------------|----------|-------------------|-----------------------------------|---------------------|
| Case Number | Attorney | Disclosure Status | Title | Inventors |
| CIN-9217 | MAC | Filed | Guard for Operator Access Station | Curless, Richard A. |

| | | | | | | | | |
|-------------------------|------------------------------|-------------|---------------|-------------|-----------------|-----|-------|-------------|
| Sub Country Case Status | Case Application Type Number | Filing Date | Patent Number | Issue Date | Expiration Date | Tax | Owner | Agent Ref # |
| US US Granted | ORD 07/942006 | 08-Sep-1992 | 5265497 | 30-Nov-1993 | 08-Sep-2012 | LE | UIP | |

Division CIN Cincinnati Machine

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|-------------|----------|-------------------|--|------------------|
| Case Number | Attorney | Disclosure Status | Title | Inventors |
| CIN-9302 | TAPE | Filed | Method and Apparatus for Sizing Composite Tows | Curry, Wilbur R. |

| | | | | | | | |
|-----------------|------------------------------|-------------|---------------|-------------|-----------------|-------|-------------|
| Sub Case Status | Case Application Type Number | Filing Date | Patent Number | Issue Date | Expiration Date | Owner | Agent Ref # |
| US US Granted | ORD 08/093911 | 20-Jul-1993 | 5397523 | 14-Mar-1995 | 20-Jul-2013 | UIP | |

Division CIN Cincinnati Machine

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|-------------|----------|-------------------|-----------------------|--------------------|
| Case Number | Attorney | Disclosure Status | Title | Inventors |
| CIN-9303 | TAPE | Filed | Tape Laying Apparatus | Peterson, David A. |

| | | | | | | | | |
|-------------------------|------------------------------|-------------|---------------|-------------|-----------------|-----|-------|-------------|
| Sub Country Case Status | Case Application Type Number | Filing Date | Patent Number | Issue Date | Expiration Date | Tax | Owner | Agent Ref # |
| US US Granted | ORD 08/017615 | 12-Feb-1993 | 5269869 | 14-Dec-1993 | 12-Feb-2013 | LE | UIP | DUN |

Division CIN Cincinnati Machine

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|--------------------|-----------------|--------------------------|----------------------------------|--|
| Case Number | Attorney | Disclosure Status | Title | Inventors |
| CIN-9306 | TAPE | Filed | Tape Laying Apparatus and Method | Grimshaw, Michael N. Peterson, David A. |

| | | | | | | | |
|---------------------|-------------------------|---------------|---------------|--------------|-------------------|--------------|--------------------------|
| Sub | Case Application | Filing | Patent | Issue | Expiration | Owner | Agent Agent Ref # |
| Country Case Status | Type Number | Date | Number | Date | Date | | |
| US US Granted | ORID 08/068011 | 27-May-1993 | 5352306 | 04-Oct-1994 | 27-May-2013 | UIP | |
| | | LE | LE | | | | |

Division CIN Cincinnati Machine

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|-------------|----------|-------------------|----------------|--|
| Case Number | Attorney | Disclosure Status | Title | Inventors |
| CIN-9307 | TAPE | Filed | Tape Compactor | Grimshaw, Michael N. Peterson, David A. |

| Sub | Case Application | Filing | Patent | Issue | Expiration | Owner | Agent Ref # |
|---------|------------------|-------------|---------|----------------|-------------|-------|-------------|
| Country | Type | Date | Number | Date | Date | | |
| US | NI | 23-Sep-1993 | 5314563 | 24-May-1994 LE | 27-May-2013 | UIP | |
| US | US | 27-May-1993 | 5316612 | 31-May-1994 LE | 27-May-2013 | UIP | |

Division CIN Cincinnati Machine

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|-------------|----------|-------------------|--|--|
| Case Number | Attorney | Disclosure Status | Title | Inventors |
| CIN-9308 | TAPE | Filed | Method of Using a Variable Force Compactor | Grimshaw, M. Grimshaw, Michael N. Hecht, J. Hecht, James R. |

| Sub Case Status | Country | Case Application Type Number | Filing Date | Patent Number | Issue Date | Tax | Expiration Date | Owner | Agent Ref # |
|-----------------|---------|------------------------------|-------------|---------------|-------------|-----|-----------------|-------|-------------|
| US N1 | Granted | CON 08/271320 | 06-Jul-1994 | 5738749 | 14-Apr-1998 | LE | 14-Apr-2015 | UIP | |
| US V1 | Granted | DIV 08/753861 | 03-Dec-1996 | 5989384 | 23-Nov-1999 | LE | 27-May-2013 | UIP | |

Division CIN Cincinnati Machine

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|-------------|----------|-------------------|--------------------------------|--------------------|
| Case Number | Attorney | Disclosure Status | Title | Inventors |
| CIN-9409 | MEC SPIN | Filed | HYBRID SPINDLE BEARING SURFACE | Wood III, David B. |

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|-------------------------|------------------------------|-------------|---------------|-------------|-----------------|-------|-------------|
| Sub Country Case Status | Case Application Type Number | Filing Date | Patent Number | Issue Date | Expiration Date | Owner | Agent Ref # |
| US N1 Granted | CON 08/707021 | 01-Sep-1996 | 5739607 | 14-Apr-1998 | 04-Mar-2014 | UIP | |

Division CIN Cincinnati Machine

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|-------------|----------|-------------------|---|-------------------|
| Case Number | Attorney | Disclosure Status | Title | Inventors |
| CIN-9411 | TUR | Filed | Reversibly Rotatable Chuck with Internal Cam for Shifting Work Axis | Jones, Russell W. |

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|-------------------------|------------------------------|-------------|---------------|-------------|----------|-----------------|-------|-------------|
| Sub Country Case Status | Case Application Type Number | Filing Date | Patent Number | Issue Date | Tax Date | Expiration Date | Owner | Agent Ref # |
| US US Granted | ORD 08/232973 | 25-Apr-1994 | 5544556 | 13-Aug-1996 | LE | 25-Apr-2014 | UIP | |

Division CIN Cincinnati Machine

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|-------------|----------|-------------------|---|----------------------|
| Case Number | Attorney | Disclosure Status | Title | Inventors |
| CIN-9416 | FIBR | Filed | Presset Member for Fiber Laying Machine | Vaniglia, Mario/Milo |

| Sub Country | Case Status | Application Type | Filing Date | Patent Number | Issue Date | Tax | Expiration Date | Owner | Agent Ref # |
|-------------|-------------|------------------|-------------|---------------|-------------|-----|-----------------|-------|-------------|
| DE | Granted | EPC 95105135.8 | 05-Apr-1995 | 69500513.8 | 06-Aug-1997 | LE | 05-Apr-2015 | UIP | BOE |
| ES | Granted | EPC 95105135.8 | 05-Apr-1995 | 680818 | 06-Aug-1997 | LE | 05-Apr-2015 | UIP | BOE |
| FR | Granted | EPC 95105135.8 | 05-Apr-1995 | 680818 | 06-Aug-1997 | LE | 05-Apr-2015 | UIP | BOE |
| GB | Granted | EPC 95105135.8 | 05-Apr-1995 | 680818 | 06-Aug-1997 | LE | 05-Apr-2015 | UIP | BOE |
| IT | Granted | EPC 95105135.8 | 05-Apr-1995 | 680818 | 06-Aug-1997 | LE | 05-Apr-2015 | UIP | BOE |
| US | Granted | ORD 08/235991 | 02-May-1994 | 5454897 | 03-Oct-1995 | LE | 02-May-2014 | UIP | |

Master List By Division

Friday, February 18, 2005

Division CIN Cincinnati Machine

| Case Number | Attorney | Disclosure Status | Title | Inventors |
|-------------|----------|-------------------|-------------------|---------------------------------------|
| CIN-9727 | WOR AER | Filed | Tombsione Fixture | Burt, Dennis A. McCalmont, Paul E. |

| Country | Sub Case Status | Case Application Type Number | Filing Date | Patent Number | Issue Date | Tax | Expiration Date | Owner | Agent Ref # |
|---------|-----------------|------------------------------|-------------|---------------|-------------|-----|-----------------|-------|-------------|
| CN | Granted | PCT 98813363.6 | 18-Dec-1998 | 9881363.6 | 02-Oct-2002 | | 18-Dec-2018 | UIP | |
| DE | Granted | EPC 98964807.6 | 18-Dec-1998 | 69807529.3 | 28-Aug-2002 | | 18-Dec-2018 | UIP | |
| EP | Granted | PCT 98964807.6 | 18-Dec-1998 | 1049563 | 28-Aug-2002 | | 18-Dec-2018 | UIP | |
| FR | Granted | EPC 98964807.6 | 18-Dec-1998 | 1049563 FR | 28-Aug-2002 | | 18-Dec-2018 | UIP | FBO |
| GB | Granted | EPC 98964807.6 | 18-Dec-1998 | 1049563 GB | 28-Aug-2002 | | 18-Dec-2018 | UIP | FBO |
| IT | Granted | EPC 98964807.6 | 18-Dec-1998 | 31918BE/02 | 28-Aug-2002 | | 18-Dec-2018 | UIP | |
| SE | Granted | EPC 98964807.6 | 18-Dec-1998 | 1049563 SE | 28-Aug-2002 | | 18-Dec-2018 | UIP | FBO |

Division CIN Cincinnati Machine

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|-------------|----------|-------------------|---|------------------------------|
| Case Number | Attorney | Disclosure Status | Title | Inventors |
| CIN-9901 | MAC AER | Filed | Method for Controlling Pivoting Machiner Member | Alverson, Steve Stone, K. |

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|-------------------------|------------------------------|-------------|---------------|-------------|-----------------|-------|-------------|
| Sub Country Case Status | Case Application Type Number | Filing Date | Patent Number | Issue Date | Expiration Date | Owner | Agent Ref # |
| US US Granted | ORD 09/535664 | 22-Mar-2000 | 6427098 | 30-Jul-2002 | 22-Mar-2020 | UIP | |

Division CIN Cincinnati Machine

| Case Number | Attorney | Disclosure Status | Title | Inventors |
|-------------|----------|-------------------|---------------------------|---------------------|
| CIN-9902 | HOR | Filed | Machine Tool Drive System | Curless, Richard A. |

Remarks: includes embodiments of CIN-9903

| Sub Country | Case Status | Application Type | Number | Filing Date | Patent Number | Issue Date | Tax | Expiration Date | Owner | Agent Ref # |
|-------------|-------------|------------------|----------------|-------------|---------------|-------------|-----|-----------------|-------|-----------------|
| DE | EP | Granted | EPC 00944636.0 | 09-Jun-2000 | 60013448.2 | 01-Sep-2004 | | 09-Jun-2020 | | |
| EP | EP | Granted | PCT 00944636.0 | 09-Jun-2000 | 1194258 | 01-Sep-2004 | | 09-Jun-2020 | UIP | FBO G00010486EP |
| GB | EP | Granted | EPC 00944636.0 | 09-Jun-2000 | 1194258 | 01-Sep-2004 | | 09-Jun-2020 | | |
| IT | EP | Granted | EPC 00944636.0 | 09-Jun-2000 | 1194258 | 01-Sep-2004 | | 09-Jun-2020 | | |

Lamb Assembly & Test Patents and Patent Applications

SSL-DOCS2 70216308v1

PATENT
REEL: 016513 FRAME: 0151

Division LAT Lamb Assembly & Test

| Case Number | Attorney | Disclosure Status | Title | Inventors |
|-------------|----------|-------------------|---|----------------|
| LAT-0302 | | Open | Automotive Transmission Separator Plate Stacker | Wolf, David L. |

| Sub Country Case Status | Case Application Type Number | Filing Date | Patent Number | Issue Date | Expiration Date | Owner | Agent Ref # |
|-------------------------|------------------------------|-------------|---------------|------------|-----------------|-------|-------------|
| US | Unfiled | | | | | | |

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Division LAT Lamb Assembly & Test

| Case Number | Attorney | Disclosure Status | Title | Inventors |
|-------------|----------|-------------------|--|--|
| LAT-x373 | WOR | Filed | Spool Valve Loading Method and Apparatus | Johnson, Lane M. Wednieski, Robert W. |

| Country | Sub Case Status | Case Type | Application Number | Filing Date | Patent Number | Issue Date | Tax | Expiration Date | Owner | Agent Ref # |
|---------|-----------------|-----------|--------------------|-------------|---------------|-------------|-----|-----------------|-------|-------------|
| CA | CA | ORD | 2235913 | 24-Apr-1998 | 2235913 | 25-Nov-2003 | | 24-Apr-2018 | UIP | REI |
| US | US | ORD | 08/869764 | 05-Jun-1997 | 5829134 | 03-Nov-1998 | LE | 05-Jun-2017 | UIP | REI |

Division LAT Lamb Assembly & Test

| Case Number | Attorney | Disclosure Status | Title | Inventors |
|-------------|----------|-------------------|--|-----------------|
| LAT-x396 | WOR | Filed | Seat and Guide Installation Method and Apparatus | Beggs, Orrin P. |

| Sub Country Case Status | Case Application Type Number | Filing Date | Patent Number | Issue Date | Expiration Date | Tax Date | Owner | Agent Ref # |
|-------------------------|------------------------------|-------------|---------------|-------------|-----------------|----------|-------|-------------|
| US US Granted | ORD 09/488440 | 20-Jan-2000 | 6467154 | 22-Oct-2002 | 20-Jan-2020 | LE | UIP | REI |
| US V1 Pending | DIV 10/228001 | 20-Jan-2000 | | | | LE | UIP | |

Division LAT Lamb Assembly & Test

| Case Number | Attorney | Disclosure Status | Title | Inventors |
|-------------|----------|-------------------|-----------------------------------|-----------------|
| LAT-x449 | | Filed | Connecting Rod Cracking Apparatus | Beggs, Orrin P. |

| Sub Country Case Status | Case Application Type Number | Filing Date | Patent Number | Issue Date | Expiration Date | Tax Date | Owner | Agent | Agent Ref # |
|-------------------------|------------------------------|--------------|---------------|------------|-----------------|----------|-------------|-------|-------------|
| US | Granted | ORD 10/21/21 | 12-Aug-2002 | 6782609 B1 | 31-Aug-2004 | LE | 12-Aug-2022 | UIP | REI |