

03-27-2003

U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

Tab settings → → → ▼

2-26-03



102401541

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

Zimmer, Inc.

Additional names(s) of conveying party(ies)

☐ Yes ☒ No

## 3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other

Execution Date: June 28, 2002

## 2. Name and address of receiving party(ies):

Name: Zimmer Orthopaedic Surgical Products, Inc.

Address: 200 West Ohio Avenue

City: Dover

State/Prov.: OH

Country: USA

ZIP: 44622

Additional name(s) &amp; address(es)

☐ Yes ☒ No

## 4. Application number(s) or patent numbers(s):

If this document is being filed together with a new application, the execution date of the application is:

Patent Application No.

Filing date

B. Patent No.(s)

See Continuation of

Item 4

03/26/2003 T01A21 00000206 D303840

01 FC:8021

4080.00/OP

Additional numbers

☒ Yes ☐ No

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

Name: Michael D. Schwartz

Registration No. 44,326

Address: Baker &amp; Daniels

111 East Wayne Street, Suite 800

City: Fort Wayne

State/Prov.: IN

Country: USA

ZIP: 46802

## 6. Total number of applications and patents involved:

102

7. Total fee (37 CFR 3.41):.....\$ 4,080.00

☒ Enclosed - Any excess or insufficiency should be credited or debited to deposit account☐ Authorized to be charged to deposit account

## 8. Deposit account number:

02-0385

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

## 9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Michael D. Schwartz

March 21, 2003

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box AssignmentsPATENT  
REEL: 013845 FRAME: 0422

CONTINUATION OF ITEM 4  
ZIMMER ORTHOPAEDIC SURGICAL PRODUCTS, INC.

| <u>PATENT NUMBER/<br/>SERIAL NUMBER</u> | <u>ISSUE DATE/<br/>FILING DATE</u> |
|-----------------------------------------|------------------------------------|
| D303,840                                | October 3, 1989                    |
| D397,788                                | September 1, 1998                  |
| D362,068                                | September 5, 1995                  |
| D381,965                                | August 5, 1997                     |
| D352,356                                | November 8, 1994                   |
| D368,773                                | April 9, 1996                      |
| D302,301                                | July 18, 1989                      |
| D365,146                                | December 12, 1995                  |
| D370,727                                | June 11, 1996                      |
| D436,165                                | January 9, 2001                    |
| D332,656                                | January 19, 1993                   |
| D360,463                                | July 18, 1995                      |
| D322,672                                | December 24, 1991                  |
| D399,968                                | October 20, 1998                   |
| D431,228                                | September 26, 2000                 |
| 4,411,262                               | October 25, 1983                   |
| 4,433,680                               | February 28, 1984                  |
| 4,469,099                               | September 4, 1984                  |
| 4,479,494                               | October 30, 1984                   |
| 4,491,132                               | January 1, 1985                    |
| 4,498,467                               | February 12, 1985                  |
| 4,519,385                               | May 28, 1985                       |
| 4,520,819                               | June 4, 1985                       |
| 4,520,820                               | June 4, 1985                       |
| 4,529,402                               | July 16, 1985                      |
| 4,548,198                               | October 22, 1985                   |
| 4,555,645                               | November 26, 1985                  |
| 4,559,035                               | December 17, 1985                  |
| 4,561,431                               | December 31, 1985                  |
| 4,573,888                               | March 4, 1986                      |
| 4,601,715                               | July 22, 1986                      |
| 4,605,010                               | August 12, 1986                    |
| 4,635,621                               | January 13, 1987                   |
| 4,635,635                               | January 13, 1987                   |
| 4,655,197                               | April 7, 1987                      |
| 4,664,652                               | May 12, 1987                       |
| 4,669,453                               | June 2, 1987                       |
| 4,679,596                               | July 14, 1987                      |
| 4,691,738                               | September 8, 1987                  |

CONTINUATION OF ITEM 4  
ZIMMER ORTHOPAEDIC SURGICAL PRODUCTS, INC.

| <u>PATENT NUMBER/<br/>SERIAL NUMBER</u> | <u>ISSUE DATE/<br/>FILING DATE</u> |
|-----------------------------------------|------------------------------------|
| 4,692,140                               | September 8, 1987                  |
| 4,770,175                               | September 13, 1988                 |
| 4,777,674                               | October 18, 1988                   |
| 4,869,265                               | September 26, 1989                 |
| 4,396,680                               | January 30, 1990                   |
| 4,899,468                               | February 13, 1990                  |
| 4,904,246                               | February 27, 1990                  |
| 4,917,086                               | April 17, 1990                     |
| 4,940,457                               | July 10, 1990                      |
| 4,943,460                               | July 24, 1990                      |
| 4,980,231                               | December 25, 1990                  |
| 5,004,468                               | April 2, 1991                      |
| 5,020,525                               | June 4, 1991                       |
| 5,048,536                               | September 17, 1991                 |
| 5,070,543                               | December 10, 1991                  |
| 5,074,839                               | December 24, 1991                  |
| 5,112,323                               | May 12, 1992                       |
| 5,152,746                               | October 6, 1992                    |
| 5,154,499                               | October 13, 1992                   |
| 5,181,522                               | January 26, 1993                   |
| 5,196,020                               | March 23, 1993                     |
| 5,207,638                               | May 4, 1993                        |
| 5,219,352                               | June 15, 1993                      |
| 5,250,344                               | October 5, 1993                    |
| 5,263,971                               | November 23, 1993                  |
| 5,275,585                               | January 4, 1994                    |
| 5,306,279                               | April 26, 1994                     |
| 5,312,431                               | May 17, 1994                       |
| 5,352,195                               | October 4, 1994                    |
| 5,439,477                               | August 8, 1995                     |
| 5,454,784                               | October 3, 1995                    |
| 5,454,831                               | October 3, 1995                    |
| 5,474,634                               | December 12, 1995                  |
| 5,486,196                               | January 23, 1996                   |
| 5,489,280                               | February 6, 1996                   |
| 5,499,970                               | March 19, 1996                     |
| 5,542,918                               | August 6, 1996                     |
| 5,556,415                               | September 17, 1996                 |
| 5,578,055                               | November 26, 1996                  |
| 5,584,853                               | December 17, 1996                  |

CONTINUATION OF ITEM 4  
ZIMMER ORTHOPAEDIC SURGICAL PRODUCTS, INC.

| <u>PATENT NUMBER/<br/>SERIAL NUMBER</u> | <u>ISSUE DATE/<br/>FILING DATE</u> |
|-----------------------------------------|------------------------------------|
| 5,599,333                               | February 4, 1997                   |
| 5,607,447                               | March 4, 1997                      |
| 5,647,852                               | July 15, 1997                      |
| 5,649,954                               | July 22, 1997                      |
| 5,681,339                               | October 28, 1997                   |
| 5,713,838                               | February 3, 1998                   |
| 5,735,833                               | April 7, 1998                      |
| 5,741,295                               | April 21, 1998                     |
| 5,759,193                               | June 2, 1998                       |
| 5,772,634                               | June 30, 1998                      |
| 5,785,700                               | July 28, 1998                      |
| 5,855,589                               | January 5, 1999                    |
| 5,882,319                               | March 16, 1999                     |
| 5,893,879                               | April 13, 1999                     |
| 5,911,735                               | June 15, 1999                      |
| 5,931,853                               | August 3, 1999                     |
| 5,935,146                               | August 10, 1999                    |
| 6,213,939                               | April 10, 2001                     |
| 08/529,314                              | September 18, 1995                 |
| 09/378,034                              | August 20, 1999                    |
| 09/668,886                              | September 25, 2000                 |
| 09/886,327                              | June 21, 2001                      |
| 10/041,119                              | January 8, 2002                    |

ASSIGNMENT OF U.S. PATENTS AND PATENT APPLICATIONS

Whereas, Zimmer, Inc., a corporation of the State of Delaware, having a principal place of business at 345 East Main Street, Warsaw, Indiana 46580, (hereinafter referred to as "Assignor") is the owner of the following issued patents and patent applications listed on Exhibit A attached hereto.

Whereas, Zimmer Orthopaedic Surgical Products, Inc., an Delaware Corporation, having a principal place of business at 200 West Ohio Avenue, Dover, Ohio 44622, (hereinafter referred to as "Assignee") is desirous of acquiring Assignor's interest in said patents and patent applications.

Now therefore, in consideration of the sum of One Dollar (\$1.00) paid to Assignor, and for other good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, Assignor does hereby assign, sell, transfer and set over as an additional capital contribution to Assignee all of Assignor's interest in said issued patents and pending patent applications, and in and to any continuations, continuations-in-part and reissues thereof. Assignor further agrees to execute any documents and to provide testimony and any assistance reasonably requested by Assignee to obtain patents for the pending patent applications, satisfy recordation requirements, or otherwise perfect transfer of title to said patents and patent applications.

This Assignment is effective as of the \_\_\_\_\_ day of \_\_\_\_\_, 2002.

ASSIGNOR

By: \_\_\_\_\_

Typed Name: \_\_\_\_\_

Title: \_\_\_\_\_

STATE OF INDIANA )

)SS:

COUNTY OF KOSCIUSKO )

Subscribed and sworn to before me, a Notary Public in and for said County and State this 28 day of June, 2002.

ILA M. LINTON  
Notary Public

\_\_\_\_\_  
(Printed Signature)

My Commission Expires: \_\_\_\_\_

A resident of \_\_\_\_\_ County

239419\_1.DOC

**ILA M. LINTON**  
Notary Public, State of Indiana  
County of Kosciusko  
My Commission Expires Jul 11, 2008  
**PATENT**

**REEL: 013845 FRAME: 0426**

Friday, June 07, 2002

## Granted Patents

Page: 1

Division: ZI Zimmer - medical devices

| Case Number/Subcase<br>Case Type                                       | Country                  | Patent Number<br>Issue Date | Status<br>Expiration Date | Attorney(s) |
|------------------------------------------------------------------------|--------------------------|-----------------------------|---------------------------|-------------|
| AS0006-/<br>ORD                                                        | United States of America | 4520820<br>04-Jun-1985      | Granted<br>15-Apr-2003    | SCH         |
| <i>Title: AUTOMATIC TOURNIQUET WITH IMPROVED PRESSURE RESOLUTION</i>   |                          |                             |                           |             |
| AS0007-/<br>ORD                                                        | United States of America | 4548198<br>22-Oct-1985      | Granted<br>15-Apr-2003    | SCH         |
| <i>Title: AUTOMATIC TOURNIQUET</i>                                     |                          |                             |                           |             |
| AS0008-/<br>ORD                                                        | United States of America | 4691738<br>08-Sep-1987      | Granted<br>08-Sep-2004    | GER         |
| <i>Title: CONTROL VALVE FOR USE WITH TOURNIQUET SYSTEM</i>             |                          |                             |                           |             |
| AS0009-/<br>ORD                                                        | United States of America | 4520819<br>04-Jun-1985      | Granted<br>15-Apr-2003    | SCH         |
| <i>Title: TOURNIQUET WITH DIFFERENTIAL PRESSURE OCCLUSION DETECTOR</i> |                          |                             |                           |             |
| AS0012A/<br>ORD                                                        | United States of America | 4573888<br>04-Mar-1986      | Granted<br>04-Apr-2005    | SCH         |
| <i>Title: FLUID PUMP</i>                                               |                          |                             |                           |             |
| AS0016-/<br>ORD                                                        | United States of America | 4635635<br>13-Jan-1987      | Granted<br>29-Nov-2004    | SCH         |
| <i>Title: TOURNIQUET CUFF</i>                                          |                          |                             |                           |             |
| AS0017-/<br>DES                                                        | United States of America | D302301<br>18-Jul-1989      | Granted<br>18-Jul-2003    | SCH         |
| <i>Title: TOURNIQUET CUFF</i>                                          |                          |                             |                           |             |

Friday, June 07, 2002

Division: ZI

Zimmer - medical devices

## Granted Patents

Page: 2

| Case Number/Subcase<br>Case Type                                           | Country                  | Patent Number<br>Issue Date | Status<br>Expiration Date | Attorney(s) |
|----------------------------------------------------------------------------|--------------------------|-----------------------------|---------------------------|-------------|
| SN0015A/D1<br>DIV                                                          | United States of America | 4529402<br>16-Jul-1985      | Granted<br>16-Jul-2002    | GER         |
| <i>Title:</i>                                                              |                          |                             |                           |             |
| SN0018-/<br>ORD                                                            | United States of America | 4519385<br>28-May-1985      | Granted<br>01-Dec-2002    | GER         |
| <i>Title:</i> LAVAGE HANDPIECE                                             |                          |                             |                           |             |
| SN0022-/<br>ORD                                                            | United States of America | 4561431<br>31-Dec-1985      | Granted<br>31-Dec-2002    | GER         |
| <i>Title:</i> LAVAGE SYSTEM                                                |                          |                             |                           |             |
| SN0023-/<br>ORD                                                            | United States of America | 4655197<br>07-Apr-1987      | Granted<br>07-Apr-2004    | SCH         |
| <i>Title:</i> LAVAGE SYSTEM WITH VARIABLE FREQUENCY FLOW RATE & PRESSURE   |                          |                             |                           |             |
| SN0024-/<br>ORD                                                            | United States of America | 4635621<br>13-Jan-1987      | Granted<br>13-Jan-2004    | SCH         |
| <i>Title:</i> LAVAGE SYSTEM WITH REPLACEABLE PUMP                          |                          |                             |                           |             |
| SN0025-/<br>ORD                                                            | United States of America | 4669453<br>02-Jun-1987      | Granted<br>02-Jun-2004    | SCH         |
| <i>Title:</i> LAVAGE SYSTEM                                                |                          |                             |                           |             |
| SN0026A/<br>ORD                                                            | United States of America | 4555645<br>26-Nov-1985      | Granted<br>01-Dec-2002    | GER         |
| <i>Title:</i> MOVEABLE COIL LINEAR MOTOR CONTINUING DATA-OF SN0026- APPLN. |                          |                             |                           |             |
| SN0027-/<br>ORD                                                            | United States of America | 4559035<br>17-Dec-1985      | Granted<br>26-Sep-2003    | GER         |
| <i>Title:</i> COLLAPSIBLE WOUND SUCTION EVACUATOR                          |                          |                             |                           |             |

Friday, June 07, 2002

Division: ZI

Zimmer - medical devices

## Granted Patents

Page: 3

Case Number/Subcase

Case Type

Country

Patent Number  
Issue DateStatus  
Expiration Date

Attorney(s)

SN0028-/

ORD

United States of America

4601715

22-Jul-1986

Granted  
29-May-2004

GER

*Title:* CHEST DRAINAGE DEVICE WITH SOUND MUFFLING TUBE

SN0031-/

ORD

United States of America

4664652

12-May-1987

Granted  
07-Feb-2005

SCH

*Title:* WOUND EVACUATOR

SN0032-/

ORD

United States of America

4692140

08-Sep-1987

Granted  
01-Jul-2005

GER

*Title:* LAVAGE/SUCTION TIP WITH DUAL SPLASH SHIELD

SN0033-/

ORD

United States of America

4679596

14-Jul-1987

Granted  
03-Feb-2006

SCH

*Title:* PRESSURE RELIEF VALVE

SN0034-/

DES

United States of America

D303840

03-Oct-1989

Granted  
03-Oct-2003

SCH

*Title:* SURGICAL DRAIN TUBE

SN0035-/

ORD

United States of America

4940457

10-Jul-1990

Granted  
23-Dec-2007

DAW

*Title:* IRRIGATION SYSTEM FOR USE DURING ARTHROSCOPY

SN0036A/C1

CIP

United States of America

4943460

24-Jul-1990

Granted  
19-Feb-2008

DAW

*Title:* PROCESS FOR-COATING POLYMER SURFACES AND COATED PRODUCTS PRODUCED USING SUCH PROCESS

PATENT

REEL: 013845 FRAME: 0429

Friday, June 07, 2002

## Granted Patents

Page: 4

Division: ZI Zimmer - medical devices

| Case Number/Subcase<br>Case Type                                                                   | Country                  | Patent Number<br>Issue Date | Status<br>Expiration Date | Attorney(s) |
|----------------------------------------------------------------------------------------------------|--------------------------|-----------------------------|---------------------------|-------------|
| SN0037A/<br>ORD                                                                                    | United States of America | 4980231<br>25-Dec-1990      | Granted<br>13-Feb-2009    | DAW         |
| <i>Title:</i> PROCESS FOR COATING POLYMER SURFACES AND COATED PRODUCTS PRODUCED USING SUCH PROCESS |                          |                             |                           |             |
| SN0038-/<br>ORD                                                                                    | United States of America | 4917086<br>17-Apr-1990      | Granted<br>26-May-2008    | DAW         |
| <i>Title:</i> DERMATOME BLADE ASSEMBLY                                                             |                          |                             |                           |             |
| SN0039-/<br>ORD                                                                                    | United States of America | 4904246<br>27-Feb-1990      | Granted<br>19-Jul-2008    | SCH         |
| <i>Title:</i> INFUSION ERECTILE SYSTEM                                                             |                          |                             |                           |             |
| SN0040-/<br>DES                                                                                    | United States of America | D322672<br>24-Dec-1991      | Granted<br>24-Dec-2005    | GER         |
| <i>Title:</i> DERMATONE APPARATUS OR THE LIKE                                                      |                          |                             |                           |             |
| SN0041-/<br>ORD                                                                                    | United States of America | 5004468<br>02-Apr-1991      | Granted<br>03-Jul-2009    | SCH         |
| <i>Title:</i> SKIN GRAFT PREPARATION APPARATUS                                                     |                          |                             |                           |             |
| SN0041B/D/I<br>DIV                                                                                 | United States of America | 5219352<br>15-Jun-1993      | Granted<br>15-Jun-2010    | SCH         |
| <i>Title:</i> SKIN GRAFT PREPARATION APPARATUS                                                     |                          |                             |                           |             |
| SN0041C/C/I<br>CON                                                                                 | United States of America | 5306279<br>26-Apr-1994      | Granted<br>26-Apr-2011    | DAW         |
| <i>Title:</i> SKIN GRAFT PREPARATION APPARATUS                                                     |                          |                             |                           |             |
| SN0042A/C/I<br>CIP                                                                                 | United States of America | 5154499<br>13-Oct-1992      | Granted<br>25-Apr-2010    | GER         |
| <i>Title:</i> MEDICAL/SURGICAL FLUID DELIVERY DEVICE WITH MULTI-FUNCTIONAL HANDLE                  |                          |                             |                           |             |

Friday, June 07, 2002

## Granted Patents

Page: 5

Division: ZI Zimmer - medical devices

## Case Number/Subcase

| Case Type                                                                   | Country                  | Patent Number<br>Issue Date | Status<br>Expiration Date | Attorney(s) |
|-----------------------------------------------------------------------------|--------------------------|-----------------------------|---------------------------|-------------|
| SN0043-/<br>DES                                                             | United States of America | D332656<br>19-Jan-1993      | Granted<br>19-Jan-2007    | GER         |
| <i>Title: CONTROL UNIT FOR MED/SURG. FLUID DELIVERY DEVICE OR THE LIKE</i>  |                          |                             |                           |             |
| SN0044-/<br>ORD                                                             | United States of America | 5112323<br>12-May-1992      | Granted<br>08-Feb-2010    | REE         |
| <i>Title: WOUND EVACUATOR</i>                                               |                          |                             |                           |             |
| SN0045-/<br>ORD                                                             | United States of America | 5152746<br>06-Oct-1992      | Granted<br>30-Apr-2010    | DAW         |
| <i>Title: LOW PRESSURE IRRIGATION SYSTEM</i>                                |                          |                             |                           |             |
| SN0046-/<br>ORD                                                             | United States of America | 5196020<br>23-Mar-1993      | Granted<br>30-Sep-2011    | DAW         |
| <i>Title: COMB FOR USE WITH SKIN GRAFT PREPARATION APPARATUS</i>            |                          |                             |                           |             |
| SN0047-/<br>ORD                                                             | United States of America | 5275585<br>04-Jan-1994      | Granted<br>03-Jun-2012    | DAW         |
| <i>Title: AUTOTRANSFUSION SYSTEM WITH PORTABLE DETACHABLE VACUUM SOURCE</i> |                          |                             |                           |             |
| SN0047A/C1<br>CON                                                           | United States of America | 5785700<br>28-Jul-1998      | Granted<br>28-Jul-2015    | DAW         |
| <i>Title: AUTOTRANSFUSION SYSTEM WITH PORTABLE DETACHABLE VACUUM SOURCE</i> |                          |                             |                           |             |
| SN0048-/<br>DES                                                             | United States of America | D365146<br>12-Dec-1995      | Granted<br>12-Dec-2009    | REE         |
| <i>Title: WOUND DEBRIDEMENT TIP</i>                                         |                          |                             |                           |             |
| SN0049-/<br>ORD                                                             | United States of America | 5499970<br>19-Mar-1996      | Granted<br>23-Aug-2014    | REE         |
| <i>Title: DEBRIDEMENT TIP</i>                                               |                          |                             |                           |             |

PATENT

REEL: 013845 FRAME: 0431

Friday, June 07, 2002

## Granted Patents

Page: 6

Division: ZI Zimmer - medical devices

| Case Number/Subcase<br>Case Type                                               | Country                  | Patent Number<br>Issue Date | Status<br>Expiration Date | Attorney(s) |
|--------------------------------------------------------------------------------|--------------------------|-----------------------------|---------------------------|-------------|
| SN0050B/<br>DES                                                                | United States of America | D397788<br>01-Sep-1998      | Granted<br>01-Sep-2012    | DAW         |
| <i>Title: DESIGN FOR IRRIGATION AND SUCTION INSTRUMENT</i>                     |                          |                             |                           |             |
| SN0050C/C1<br>CIP                                                              | United States of America | 582319<br>16-Mar-1999       | Granted<br>15-Feb-2016    | DAW         |
| <i>Title: LAVAGE INSTRUMENT</i>                                                |                          |                             |                           |             |
| SN0051-/<br>ORD                                                                | United States of America | 5454784<br>03-Oct-1995      | Granted<br>10-Jun-2014    | REE         |
| <i>Title: CONTROL VALVE FOR A FLUID SET</i>                                    |                          |                             |                           |             |
| SN0052-/<br>DES                                                                | United States of America | D368773<br>09-Apr-1996      | Granted<br>09-Apr-2010    | DAW         |
| <i>Title: HANDPIECE DESIGN</i>                                                 |                          |                             |                           |             |
| SN0053-/<br>ORD                                                                | United States of America | 5599333<br>04-Feb-1997      | Granted<br>29-Dec-2014    | REE         |
| <i>Title: SUCTION ADAPTER</i>                                                  |                          |                             |                           |             |
| SN0054-/<br>DES                                                                | United States of America | D362068<br>05-Sep-1995      | Granted<br>05-Sep-2009    | DAW         |
| <i>Title: INFLATABLE SURGICAL CUFF</i>                                         |                          |                             |                           |             |
| SN0055-/<br>ORD                                                                | United States of America | 5489280<br>06-Feb-1996      | Granted<br>31-Oct-2014    | DAW         |
| <i>Title: PREP SOLUTION APPLICATOR</i>                                         |                          |                             |                           |             |
| SN0058-/<br>ORD                                                                | United States of America | 5542918<br>06-Aug-1996      | Granted<br>06-Jan-2015    | DAW         |
| <i>Title: VACUUM DRIVEN FLUID PUMP FOR AN ASPIRATION/IRRIGATION INSTRUMENT</i> |                          |                             |                           |             |

Division: ZI Zimmer - medical devices

| Case Number/Subcase<br>Case Type                                                  | Country                  | Patent Number<br>Issue Date | Status<br>Expiration Date | Attorney(s) |
|-----------------------------------------------------------------------------------|--------------------------|-----------------------------|---------------------------|-------------|
| SN0060-/<br>ORD                                                                   | United States of America | 5647852<br>15-Jul-1997      | Granted<br>31-Jan-2015    | DAW         |
| <i>Title: LAVAGE SYSTEM INCLUDING A CASSETTE ASSEMBLY</i>                         |                          |                             |                           |             |
| SN0061-/<br>DES                                                                   | United States of America | D370727<br>11-Jun-1996      | Granted<br>11-Jun-2010    | DAW         |
| <i>Title: DESIGN FOR A CASSETTE ASSEMBLY FOR A LAVAGE SYSTEM</i>                  |                          |                             |                           |             |
| SN0063-/<br>ORD                                                                   | United States of America | 5772634<br>30-Jun-1998      | Granted<br>06-Oct-2015    | DAW         |
| <i>Title: A DEVICE FOR LIMITING DISTENTION FLUID PRESSURE DURING HYSTEROSCOPY</i> |                          |                             |                           |             |
| SN0065-/<br>DES                                                                   | United States of America | D381965<br>05-Aug-1997      | Granted<br>05-Aug-2011    | REE         |
| <i>Title: SPLASH SHIELD FOR A LAVAGE TIP</i>                                      |                          |                             |                           |             |
| SN0071-/<br>ORD                                                                   | United States of America | 5735833<br>07-Apr-1998      | Granted<br>11-Dec-2016    | GER         |
| <i>Title: LAVAGE TIP</i>                                                          |                          |                             |                           |             |
| SN9005-/<br>ORD                                                                   | United States of America | 5020525<br>04-Jun-1991      | Granted<br>19-Sep-2009    | GER         |
| <i>Title: ANKLE DISTRACTION APPARATUS</i>                                         |                          |                             |                           |             |
| SN9006-/<br>ORD                                                                   | United States of America | 5074839<br>24-Dec-1991      | Granted<br>24-Aug-2009    | DAW         |
| <i>Title: BLOOD TRANSFER APPARATUS</i>                                            |                          |                             |                           |             |
| SN9006A/C1<br>CON                                                                 | United States of America | 5207638<br>04-May-1993      | Granted<br>24-Aug-2009    | DAW         |
| <i>Title: BLOOD TRANSFER APPARATUS</i>                                            |                          |                             |                           |             |

Friday, June 07, 2002

## Granted Patents

Page: 8

Division: ZI Zimmer - medical devices

| Case Number/Subcase<br>Case Type | Country | Patent Number<br>Issue Date | Status<br>Expiration Date | Attorney(s) |
|----------------------------------|---------|-----------------------------|---------------------------|-------------|
|----------------------------------|---------|-----------------------------|---------------------------|-------------|

|                 |                          |                        |                        |     |
|-----------------|--------------------------|------------------------|------------------------|-----|
| SN9008-/<br>ORD | United States of America | 5070543<br>10-Dec-1991 | Granted<br>14-Feb-2009 | DAW |
|-----------------|--------------------------|------------------------|------------------------|-----|

*Title: METHOD AND MEANS OF SURGICAL NEEDLE PROTECTION*

|                 |                          |                        |                        |     |
|-----------------|--------------------------|------------------------|------------------------|-----|
| SN9015-/<br>ORD | United States of America | 4896680<br>30-Jan-1990 | Granted<br>01-Feb-2008 | DAW |
|-----------------|--------------------------|------------------------|------------------------|-----|

*Title: METHOD OF EXTENDING A FLAP OF SKIN*

|                 |                          |                        |                        |     |
|-----------------|--------------------------|------------------------|------------------------|-----|
| SN9016-/<br>ORD | United States of America | 5263971<br>23-Nov-1993 | Granted<br>13-Feb-2012 | DAW |
|-----------------|--------------------------|------------------------|------------------------|-----|

*Title: APPARATUS FOR THE CLOSURE OF WIDE SKIN DEFECTS BY STRETCHING OF SKIN*

|                 |                          |                        |                        |     |
|-----------------|--------------------------|------------------------|------------------------|-----|
| SN9016A/<br>PCT | United States of America | 5893879<br>13-Apr-1999 | Granted<br>13-Apr-2016 | DAW |
|-----------------|--------------------------|------------------------|------------------------|-----|

*Title: APPARATUS FOR THE CLOSURE OF WIDE SKIN DEFECTS BY STRETCHING OF SKIN*

|                   |                          |                        |                        |     |
|-------------------|--------------------------|------------------------|------------------------|-----|
| SN9016A/C1<br>CIP | United States of America | 5486196<br>23-Jan-1996 | Granted<br>23-Jan-2013 | DAW |
|-------------------|--------------------------|------------------------|------------------------|-----|

*Title: APPARATUS FOR THE CLOSURE OF WIDE SKIN DEFECTS BY STRETCHING OF SKIN*

|                   |                          |                        |                        |     |
|-------------------|--------------------------|------------------------|------------------------|-----|
| SN9018A/C1<br>CON | United States of America | 5759193<br>02-Jun-1998 | Granted<br>21-Apr-2014 | DAW |
|-------------------|--------------------------|------------------------|------------------------|-----|

*Title: SINGLE NEEDLE SKIN STRETCHING DEVICE*

|                 |                          |                        |                        |     |
|-----------------|--------------------------|------------------------|------------------------|-----|
| SN9019-/<br>DES | United States of America | D352356<br>08-Nov-1994 | Granted<br>08-Nov-2008 | DAW |
|-----------------|--------------------------|------------------------|------------------------|-----|

*Title: SURGICAL CONTRACTOR FOR THE CLOSURE OF WIDE SKIN DEFECTS*

PATENT

REEL: 013845 FRAME: 0434

Division: ZI Zimmer - medical devices

## Case Number/Subcase

| Case Type                                                              | Country                  | Patent Number<br>Issue Date | Status<br>Expiration Date | Attorney(s) |
|------------------------------------------------------------------------|--------------------------|-----------------------------|---------------------------|-------------|
| SN9019A/<br>DES                                                        | United States of America | D360463<br>18-Jul-1995      | Granted<br>18-Jul-2009    | DAW         |
| <i>Title: SURGICAL CONTRACTOR FOR THE CLOSURE OF WIDE SKIN DEFECTS</i> |                          |                             |                           |             |
| SN9023-/<br>DES                                                        | United States of America | D399968<br>20-Oct-1998      | Granted<br>20-Oct-2012    | DAW         |
| <i>Title: DESIGN FOR PAD FOR A KNEE POSITIONER</i>                     |                          |                             |                           |             |

ZM0081-/  
ORD

United States of America      4491132      Granted      GER  
01-Jan-1985      06-Aug-2002

*Title: SHEATH & RETRACTABLE SURGICAL TOOL COMBINATION*

Friday, June 07, 2002

## Granted Patents

Page: 11

Division: Z1 Zimmer - medical devices

| Case Number/Subcase<br>Case Type | Country | Patent Number<br>Issue Date | Status<br>Expiration Date | Attorney(s) |
|----------------------------------|---------|-----------------------------|---------------------------|-------------|
|----------------------------------|---------|-----------------------------|---------------------------|-------------|

|                 |                          |                        |                        |     |
|-----------------|--------------------------|------------------------|------------------------|-----|
| ZM0103-/<br>ORD | United States of America | 4899468<br>13-Feb-1990 | Granted<br>13-Feb-2007 | KRI |
|-----------------|--------------------------|------------------------|------------------------|-----|

Title: IMPROVED SOLE FOR CAST SHOE

Friday, June 07, 2002

Division: ZI

Zimmer - medical devices

## Granted Patents

Page: 15

| Case Number/Subcase<br>Case Type | Country | Patent Number<br>Issue Date | Status<br>Expiration Date | Attorney(s) |
|----------------------------------|---------|-----------------------------|---------------------------|-------------|
|----------------------------------|---------|-----------------------------|---------------------------|-------------|

ZM0136B/C1  
CON

United States of America

5250344

05-Oct-1993

Granted

21-Dec-2010

SCH

*Title:* CAST MATERIAL WITH ENCAPSULATED LUBRICANT

Friday, June 07, 2002

Division: ZI

Zimmer - medical devices

## Granted Patents

Page: 47

| Case Number/Subcase<br>Case Type | Country                                                                            | Patent Number<br>Issue Date | Status<br>Expiration Date | Attorney(s) |
|----------------------------------|------------------------------------------------------------------------------------|-----------------------------|---------------------------|-------------|
| ZM0407/<br>DES                   | United States of America<br><br><i>Title: BATTERY PACK FOR A MEDICAL APPLIANCE</i> | D431228<br>26-Sep-2000      | Granted<br>26-Sep-2014    | REE         |
| ZM0408/<br>DES                   | United States of America<br><br><i>Title: MEDICAL SUCTION/LAVAGE HANDPIECE</i>     | D436165<br>09-Jan-2001      | Granted<br>09-Jan-2015    | REE         |

Friday, June 07, 2002

## Granted Patents

Page: 48

Division: ZI Zimmer - medical devices

| Case Number/Subcase<br>Case Type | Country | Patent Number<br>Issue Date | Status<br>Expiration Date | Attorney(s) |
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|                   |                          |                        |                        |  |
|-------------------|--------------------------|------------------------|------------------------|--|
| ZM9081A/C1<br>CON | United States of America | 4469099<br>04-Sep-1984 | Granted<br>04-Sep-2001 |  |
|-------------------|--------------------------|------------------------|------------------------|--|

*Title:* PNEUMATIC TORNIQUET (CIP APP. OF ZM9081-

Friday, June 07, 2002

## Granted Patents

Page: 49

Division: ZI Zimmer - medical devices

| Case Number/Subcase<br>Case Type            | Country                  | Patent Number<br>Issue Date | Status<br>Expiration Date | Attorney(s) |
|---------------------------------------------|--------------------------|-----------------------------|---------------------------|-------------|
| ZM9107-/<br>ORD                             | United States of America | 4479494<br>30-Oct-1984      | Granted<br>05-Jan-2002    |             |
| <i>Title: ADAPTIVE PNEUMATIC TOURNIQUET</i> |                          |                             |                           |             |

|                               |                          |                        |                        |  |
|-------------------------------|--------------------------|------------------------|------------------------|--|
| ZM9118-/<br>ORD               | United States of America | 4498467<br>12-Feb-1985 | Granted<br>11-May-2003 |  |
| <i>Title: ORTHOPEDIC CAST</i> |                          |                        |                        |  |

Division: ZI Zimmer - medical devices

| Case Number/Subcase<br>Case Type | Country | Patent Number<br>Issue Date | Status<br>Expiration Date | Attorney(s) |
|----------------------------------|---------|-----------------------------|---------------------------|-------------|
|----------------------------------|---------|-----------------------------|---------------------------|-------------|

|                 |                          |                        |                        |     |
|-----------------|--------------------------|------------------------|------------------------|-----|
| ZM9143-/<br>ORD | United States of America | 4605010<br>12-Aug-1986 | Granted<br>17-May-2004 | SCH |
|-----------------|--------------------------|------------------------|------------------------|-----|

*Title: PRESSURIZING CUFF*

|                 |                          |                        |                        |     |
|-----------------|--------------------------|------------------------|------------------------|-----|
| ZM9153-/<br>ORD | United States of America | 4777674<br>18-Oct-1988 | Granted<br>18-Oct-2005 | DAW |
|-----------------|--------------------------|------------------------|------------------------|-----|

*Title: WHIRLPOOL BATH SUPPORT*

Friday, June 07, 2002

Division: ZI

Zimmer - medical devices

## Granted Patents

Page: 51

| Case Number/Subcase<br>Case Type | Country | Patent Number<br>Issue Date | Status<br>Expiration Date | Attorney(s) |
|----------------------------------|---------|-----------------------------|---------------------------|-------------|
|----------------------------------|---------|-----------------------------|---------------------------|-------------|

ZM9169-/C1  
CON

United States of America

4411262  
25-Oct-1983

Granted  
31-Dec-2001

*Title:* CONSTRUCTIONAL MATERIAL

ZM9171-/  
ORD

United States of America

4770175  
13-Sep-1988

Granted  
22-Oct-2006

SCH

Friday, June 07, 2002

## Granted Patents

Page: 56

Division: ZI Zimmer - medical devices

| Case Number/Subcase<br>Case Type | Country | Patent Number<br>Issue Date | Status<br>Expiration Date | Attorney(s) |
|----------------------------------|---------|-----------------------------|---------------------------|-------------|
|----------------------------------|---------|-----------------------------|---------------------------|-------------|

|                 |                          |                        |                        |     |
|-----------------|--------------------------|------------------------|------------------------|-----|
| ZM9224-/<br>ORD | United States of America | 4869265<br>26-Sep-1989 | Granted<br>03-Apr-2007 | DAW |
|-----------------|--------------------------|------------------------|------------------------|-----|

*Title: BIOMEDICAL PRESSURE TRANSDUCER*

|                   |                          |                        |                        |     |
|-------------------|--------------------------|------------------------|------------------------|-----|
| ZM9224A/C1<br>CIP | United States of America | 5048536<br>17-Sep-1991 | Granted<br>17-Sep-2008 | DAW |
|-------------------|--------------------------|------------------------|------------------------|-----|

*Title: TOURNIQUET FOR REGULATING APPLIED PRESSURES*

|                   |                          |                        |                        |     |
|-------------------|--------------------------|------------------------|------------------------|-----|
| ZM9224B/C1<br>CIP | United States of America | 5181522<br>26-Jan-1993 | Granted<br>17-Sep-2008 | DAW |
|-------------------|--------------------------|------------------------|------------------------|-----|

*Title: TOURNIQUET FOR SENSING AND REGULATION OF APPLIED PRESSURES*

PATENT

REEL: 013845 FRAME: 0443

Friday, June 07, 2002

## Granted Patents

Page: 57

Division: ZI Zimmer - medical devices

| Case Number/Subcase<br>Case Type | Country                                                                                                | Patent Number<br>Issue Date | Status<br>Expiration Date | Attorney(s) |
|----------------------------------|--------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------|-------------|
| ZM9225/O1<br>ORD                 | United States of America<br><i>Title: IMPROVED OCCLUSIVE CUFF</i>                                      | 5312431<br>17-May-1994      | Granted<br>30-Sep-2011    | DAW         |
| ZM9225/P1<br>PCT                 | United States of America<br><i>Title: IMPROVED OCCLUSIVE CUFF</i>                                      | 5578055<br>26-Nov-1996      | Granted<br>30-Sep-2011    | DAW         |
| ZM9225A/C1<br>CIP                | United States of America<br><i>Title: OCCLUSIVE CUFF SYSTEM</i>                                        | 5454831<br>03-Oct-1995      | Granted<br>30-Sep-2011    | DAW         |
| ZM9225B/C1<br>CIP                | United States of America<br><i>Title: TOURNIQUET CUFF SYSTEM</i>                                       | 5649954<br>22-Jul-1997      | Granted<br>30-Sep-2011    | DAW         |
| ZM9225C/C1<br>CIP                | United States of America<br><i>Title: OVERLAPPING TOURNIQUET CUFF SYSTEM</i>                           | 5,741,295<br>21-Apr-1998    | Granted<br>30-Sep-2011    | DAW         |
| ZM9226B/D1<br>DIV                | United States of America<br><i>Title: TOURNIQUET APPARATUS FOR APPLYING MINIMUM EFFECTIVE PRESSURE</i> | 5439477<br>08-Aug-1995      | Granted<br>08-Aug-2012    | DAW         |
| ZM9226C/C1<br>CIP                | United States of America<br><i>Title: APPARATUS FOR INTRAVENOUS REGIONAL ANESTHESIA</i>                | 5352195<br>04-Oct-1994      | Granted<br>19-Oct-2010    | DAW         |
| ZM9226D/C2<br>CON                | United States of America<br><i>Title: PHYSIOLOGIC TOURNIQUET FOR INTRAVENOUS REGIONAL ANESTHESIA</i>   | 5855589<br>05-Jan-1999      | Granted<br>17-Sep-2013    | DAW         |

Friday, June 07, 2002

Division: ZI Zimmer - medical devices

## Granted Patents

Page: 58

Case Number/Subcase  
Case Type

ZM9226D/C3  
CIP

Country

United States of America

Patent Number  
Issue Date

5556415

17-Sep-1996

Status

Granted

Expiration Date

17-Sep-2013

Attorney(s)

DAW

*Title:* PHYSIOLOGIC TOURNIQUET FOR INTRAVENOUS REGIONAL ANESTHESIA

ZM9226E/  
PCT

United States of America

5931853

03-Aug-1999

Granted

25-Aug-2015

DAW

*Title:* PHYSIOLOGIC TOURNIQUET

ZM9226E/C1  
CIP

United States of America

5607447

04-Mar-1997

Granted

04-Mar-2014

DAW

*Title:* PHYSIOLOGIC TOURNIQUET

ZM9226F/C1  
CON

United States of America

5584853

17-Dec-1996

Granted

17-Dec-2013

DAW

*Title:* TOURNIQUET CUFF APPARATUS

ZM9226G/D1  
DIV

United States of America

5,911,735

15-Jun-1999

Granted

29-Jan-2010

DAW

*Title:* TIME-LIMITED PHYSIOLOGIC TOURNIQUET (DIV OF 08/297,255; WHICH IS A CIP OF 08/128,478, WHICH IS A DIV OF 07/471,514)

Friday, June 07, 2002

Division: ZI

Zimmer - medical devices

## Granted Patents

Page: 64

| Case Number/Subcase<br>Case Type | Country | Patent Number<br>Issue Date | Status<br>Expiration Date | Attorney(s) |
|----------------------------------|---------|-----------------------------|---------------------------|-------------|
|----------------------------------|---------|-----------------------------|---------------------------|-------------|

ZM9283-/  
ORD

United States of America

4433680

28-Feb-1984

Granted

10-Feb-2002

SCH

Title: POLYURETHANE CASTING MATERIAL

PATENT

REEL: 013845 FRAME: 0446

Friday, June 07, 2002

Division: ZI

Zimmer - medical devices

## Granted Patents

Page: 65

Case Number/Subcase  
Case Type

Country

Patent Number  
Issue Date

Status  
Expiration Date

Attorney(s)

ZM9294-/  
ORD

United States of America

5681339

28-Oct-1997

Granted

12-Aug-2016

DAW

Title: APPARATUS AND METHOD FOR MONITORING THE PATENCY OF TUBING IN A PNEUMATIC DEVICE

ZM9294A/C1  
CON

United States of America

5935146

10-Aug-1999

Granted

12-Aug-2016

DAW

Title: METHOD FOR MONITORING THE PATENCY OF TUBING IN A PNEUMATIC MEDICAL DEVICE

PATENT

REEL: 013845 FRAME: 0447

Friday, June 07, 2002

Division: ZL

Zimmer - medical devices

## Granted Patents

Page: 66

| Case Number/Subcase<br>Case Type | Country | Patent Number<br>Issue Date | Status<br>Expiration Date | Attorney(s) |
|----------------------------------|---------|-----------------------------|---------------------------|-------------|
|----------------------------------|---------|-----------------------------|---------------------------|-------------|

ZM9303-/  
ORD

United States of America

5474634

12-Dec-1995

Granted

17-May-2014

DAW

*Title:* PROTECTIVE TAPE

ZM9304-/  
ORD

United States of America

5713838

03-Feb-1998

Granted

22-Jul-2016

DAW

*Title:* CURING OF ORTHOPEDIC CASTING MATERIAL AND DEVICE AND METHOD FOR  
USING SAME

Friday, June 07, 2002

Division: ZI

Zimmer - medical devices

## Granted Patents

Case Number/Subcase

Case Type

ZM9308-/

ORD

Country

United States of America

Patent Number  
Issue Date

6213939

10-Apr-2001

Status  
Expiration Date

Granted

10-Dec-2018

Attorney(s)

DAW

Title: HAZARD MONITOR FOR SURGICAL TOURNIQUET SYSTEMS

Page: 67

Thursday, June 06, 2002

Division: ZI

Zimmer - medical devices

## Pending Patents

Case Number/Subcase  
Case Type

Country

Application  
Number/Date

Status

Publication Date

Attorney(s)

Page: 3

ZM0409/  
ORD

United States of America

09/668886  
25-Sep-2000

Pending

REE  
WIL

Title: WOUND DEBRIDEMENT DEVICE

Thursday, June 06, 2002

Division: ZI

Zimmer - medical devices

Case Number/Subcase  
Case Type

Country

Application  
Number/Date

Status  
Publication Date

Attorney(s)

## Pending Patents

Page: 5

ZM0436/  
ORD

United States of America

10/041,119  
08-Jan-2002

Pending

WIL

Title: DEBRIDEMENT EXTENSION

PATENT

REEL: 013845 FRAME: 0451

Thursday, June 06, 2002

Division: ZI

Zimmer - medical devices

## Pending Patents

Page: 8

| Case Number/Subcase<br>Case Type | Country | Application<br>Number/Date | Status<br>Publication Date | Attorney(s) |
|----------------------------------|---------|----------------------------|----------------------------|-------------|
|----------------------------------|---------|----------------------------|----------------------------|-------------|

ZM9142-/  
ORD

United States of America

498588

26-May-1983

Pending

SCH

Title: CAST SHOE

Thursday, June 06, 2002

## Pending Patents

Page: 11

Division: ZI Zimmer - medical devices

| Case Number/Subcase<br>Case Type | Country | Application<br>Number/Date | Status<br>Publication Date | Attorney(s) |
|----------------------------------|---------|----------------------------|----------------------------|-------------|
|----------------------------------|---------|----------------------------|----------------------------|-------------|

|                 |                          |                          |         |     |
|-----------------|--------------------------|--------------------------|---------|-----|
| ZM9303A/<br>ORD | United States of America | 08/529314<br>18-Sep-1995 | Pending | DAW |
|-----------------|--------------------------|--------------------------|---------|-----|

*Title: PROTECTIVE TAPE*

|                |                          |                           |         |     |
|----------------|--------------------------|---------------------------|---------|-----|
| ZM9312/<br>ORD | United States of America | 09/378,034<br>20-Aug-1999 | Pending | DAW |
|----------------|--------------------------|---------------------------|---------|-----|

*Title: LIMB PROTECTION SLEEVE FOR MATCHING TOURNIQUET CUFF*

|                 |                          |                          |         |     |
|-----------------|--------------------------|--------------------------|---------|-----|
| ZM9312/1<br>CIP | United States of America | 09/886327<br>21-Jun-2001 | Pending | DAW |
|-----------------|--------------------------|--------------------------|---------|-----|

*Title: LIMB PROTECTION SLEEVE FOR MATCHING TOURNIQUET CUFF*