

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5594321

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| <b>SUBMISSION TYPE:</b>                                                                                                                                                                         | NEW ASSIGNMENT                     |                       |
| <b>NATURE OF CONVEYANCE:</b>                                                                                                                                                                    | ASSIGNMENT                         |                       |
| <b>CONVEYING PARTY DATA</b>                                                                                                                                                                     |                                    |                       |
|                                                                                                                                                                                                 | <b>Name</b>                        | <b>Execution Date</b> |
|                                                                                                                                                                                                 | MEDTRONIC COREVALVE LLC            | 04/21/2009            |
| <b>RECEIVING PARTY DATA</b>                                                                                                                                                                     |                                    |                       |
| <b>Name:</b>                                                                                                                                                                                    | MEDTRONIC CV LUXEMBERG S.A.R.L.    |                       |
| <b>Street Address:</b>                                                                                                                                                                          | 3B BLD PRINCE HENRI                |                       |
| <b>City:</b>                                                                                                                                                                                    | LUXEMBOURG                         |                       |
| <b>State/Country:</b>                                                                                                                                                                           | LUXEMBOURG                         |                       |
| <b>Postal Code:</b>                                                                                                                                                                             | L-1724                             |                       |
| <b>PROPERTY NUMBERS Total: 1</b>                                                                                                                                                                |                                    |                       |
|                                                                                                                                                                                                 | <b>Property Type</b>               | <b>Number</b>         |
|                                                                                                                                                                                                 | Application Number:                | 15295350              |
| <b>CORRESPONDENCE DATA</b>                                                                                                                                                                      |                                    |                       |
| <b>Fax Number:</b>                                                                                                                                                                              |                                    |                       |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> |                                    |                       |
| <b>Phone:</b>                                                                                                                                                                                   | 707 566 1375                       |                       |
| <b>Email:</b>                                                                                                                                                                                   | kim.grigg@medtronic.com            |                       |
| <b>Correspondent Name:</b>                                                                                                                                                                      | KIM S GRIGG                        |                       |
| <b>Address Line 1:</b>                                                                                                                                                                          | 3576 UNOCAL PLACE                  |                       |
| <b>Address Line 4:</b>                                                                                                                                                                          | SANTA ROSA, CALIFORNIA 95403       |                       |
| <b>ATTORNEY DOCKET NUMBER:</b>                                                                                                                                                                  | P0035373.USC35                     |                       |
| <b>NAME OF SUBMITTER:</b>                                                                                                                                                                       | WILLIAM L. HAYNES                  |                       |
| <b>SIGNATURE:</b>                                                                                                                                                                               | /William L. Haynes Reg. No. 48151/ |                       |
| <b>DATE SIGNED:</b>                                                                                                                                                                             | 06/27/2019                         |                       |
| <b>Total Attachments: 14</b>                                                                                                                                                                    |                                    |                       |
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## PATENT ASSIGNMENT

This Patent Assignment is delivered pursuant to the CoreValve IP License Agreement (the "Agreement") dated as of April 21, 2009, between Medtronic CoreValve LLC (the "Assignor") and Medtronic CV Luxembourg S.à r.l. (the "Assignee"), as such Agreement was amended by Amendment No. 1 dated as of April 21, 2009. Capitalized terms used in this Patent Assignment have the same meanings given to them in the Agreement.

The Assignor has delivered this instrument signed by it to enable the Assignee to file this instrument with any appropriate governmental agency to indicate ownership of the intellectual property described below and for other purposes set forth in this instrument. This instrument supplements and is in addition to all other rights of the Assignee under the Agreement and other instruments of transfer delivered in connection with the Agreement.

1. For good and valuable consideration, receipt of which the Assignor acknowledges, and by signing and delivering this instrument, the Assignor assigns, transfers, conveys, and delivers to the Assignee legal title held by the Assignor to:

(a) the patents, patent applications and invention disclosures specifically listed in Annex A to this Patent Assignment; and

(b) the following properties and rights with respect to all patents and patent applications so listed in Annex A:

(i) any patents in Europe, the United States of America and Japan and patent applications that have been or may be granted or filed, respectively, with respect to those inventions, including without limitation all foreign patents that may claim priority based on and correspond to the patents listed in Annex A, and

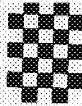
(ii) all divisions, renewals, reissues, continuations, extensions, and (if filed by or for the Assignee) continuations-in-part of the foregoing patents.

2. The foregoing assignment of legal title will apply to the full end of the terms of the patents listed above as fully as the Assignor would have held the same in the absence of this assignment.

3. This Patent Assignment is irrevocable and effective upon its execution by the Assignor.

4. The validity, construction and enforceability of this Patent Assignment shall be governed by the laws of State of California, excluding its conflict of laws rules.

[signature page follows]



The undersigned have signed this Patent Assignment on December 23, 2014.

Medtronic CV Luxembourg S.à r.l.

By: G. S. Ellis  
Name: Gary L. Ellis  
Title: Class B Manager

Medtronic CoreValve LLC

By: G. S. Ellis  
Name: Gary L. Ellis  
Title: Vice President & Chief Financial Officer

Medtronic CV Luxembourg S.à r.l.

By: A. Grossman  
Name: Andrej Grossman  
Title: Class A Manager

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Sarl\2014.12.19 MDT CV LuxCo Patent Assignment with CoreValve LLC

SPODMS/6639756.2

**ANNEX A**  
**TO PATENT ASSIGNMENT**

**ANNEX A**

| Matter #    | Application # | Application Date | Patent #      | Issue Date | Title                                                                  |
|-------------|---------------|------------------|---------------|------------|------------------------------------------------------------------------|
| P0035364.00 | 99/14462      | 11/17/1999       | 2800984       | 5/18/2001  | COREVALVE - DEVICE FOR REPLACING A CARDIAC VALVE BY PERCUTANEOUS ROUTE |
| P0035364.01 | FR00/003176   | 11/15/2000       |               |            | DEVICE FOR REPLACING A CARDIAC VALVE BY PERCUTANEOUS ROUTE             |
| P0035364.02 | 2001/17132    | 11/15/2000       | 0767710       | 11/20/2003 | DEVICE FOR REPLACING A CARDIAC VALVE BY PERCUTANEOUS ROUTE             |
| P0035364.03 | 2389713       | 11/15/2000       | 2,389,713     | 9/2/2008   | DEVICE FOR REPLACING A CARDIAC VALVE BY PERCUTANEOUS ROUTE             |
| P0035364.04 | 2001/1537666  | 11/15/2000       |               |            | DEVICE FOR REPLACING A CARDIAC VALVE BY PERCUTANEOUS ROUTE             |
| P0035364.05 | 10/130,355    | 11/15/2000       | 6,830,584     | 12/14/2004 | DEVICE FOR REPLACING A CARDIAC VALVE BY PERCUTANEOUS ROUTE             |
| P0035364.06 | 00979740.8    | 11/15/2000       | 1233731       | 12/29/2004 | DEVICE FOR REPLACING A CARDIAC VALVE BY PERCUTANEOUS ROUTE             |
| P0035364.06 | 00979740.8    | 11/15/2000       | 60017189.2-08 | 12/29/2004 | DEVICE FOR REPLACING A CARDIAC VALVE BY PERCUTANEOUS ROUTE             |
| P0035364.06 | 00979740.8    | 11/15/2000       | 1233731       | 12/29/2004 | DEVICE FOR REPLACING A CARDIAC VALVE BY PERCUTANEOUS ROUTE             |
| P0035364.06 | 00979740.8    | 11/15/2000       | 1233731       | 12/29/2004 | DEVICE FOR REPLACING A CARDIAC VALVE BY PERCUTANEOUS ROUTE             |
| P0035364.06 | 00979740.8    | 11/15/2000       | 1233731       | 12/29/2004 | DEVICE FOR REPLACING A CARDIAC VALVE BY PERCUTANEOUS ROUTE             |
| P0035364.06 | 00979740.8    | 11/15/2000       | 1233731       | 12/29/2004 | DEVICE FOR REPLACING A CARDIAC VALVE BY PERCUTANEOUS ROUTE             |
| P0035364.06 | 00979740.8    | 11/15/2000       | 1233731       | 12/29/2004 | DEVICE FOR REPLACING A CARDIAC VALVE BY PERCUTANEOUS ROUTE             |
| P0035364.06 | 00979740.8    | 11/15/2000       | 1233731       | 12/29/2004 | DEVICE FOR REPLACING A CARDIAC VALVE BY PERCUTANEOUS ROUTE             |
| P0035364.06 | 00979740.8    | 11/15/2000       | 1233731       | 12/29/2004 | DEVICE FOR REPLACING A CARDIAC VALVE BY PERCUTANEOUS ROUTE             |
| P0035364.06 | 00979740.8    | 11/15/2000       | 1233731       | 12/29/2004 | DEVICE FOR REPLACING A CARDIAC VALVE BY PERCUTANEOUS ROUTE             |
| P0035364.06 | 00979740.8    | 11/15/2000       | 1233731       | 12/29/2004 | DEVICE FOR REPLACING A CARDIAC VALVE BY PERCUTANEOUS ROUTE             |
| P0035364.06 | 00979740.8    | 11/15/2000       | 1233731       | 12/29/2004 | DEVICE FOR REPLACING A CARDIAC VALVE BY PERCUTANEOUS ROUTE             |
| P0035365.00 |               |                  |               |            | CoreValve - Prosthetic Valve for Transluminal Delivery                 |

|                |                    |            |           |            |                                                                                 |
|----------------|--------------------|------------|-----------|------------|---------------------------------------------------------------------------------|
| P0035365.00    | 10/412,634         | 4/10/2003  | 7,018,406 | 3/28/2006  | PROSTHETIC VALVE FOR TRANSLUMINAL DELIVERY                                      |
| P0035365.01    | 11/352,614         | 12/13/2006 | 7,329,278 | 2/12/2008  | PROSTHETIC VALVE FOR TRANSLUMINAL DELIVERY                                      |
| P0035365.02    | 12/029,031         | 2/11/2008  |           |            | PROSTHETIC VALVE FOR TRANSLUMINAL DELIVERY                                      |
| P0035365.03    | 10/772,101         | 2/4/2004   | 8,579,966 | 11/12/2013 | PROSTHETIC VALVE FOR TRANSLUMINAL DELIVERY                                      |
| P0035365.04    | 12/348,892         | 1/5/2009   | 7,892,281 | 2/22/2011  | PROSTHETIC VALVE FOR TRANSLUMINAL DELIVERY                                      |
| P0035365.05    | 12/494,060         | 6/29/2009  | 8,016,877 | 9/13/2011  | PROSTHETIC VALVE FOR TRANSLUMINAL DELIVERY                                      |
| P0035365.06    | 12/636,563         | 12/11/2009 | 8,603,159 | 12/10/2013 | Prosthetic Valve for Transluminal Delivery                                      |
| P0035365.07    | 13/010,010         | 1/20/2011  |           |            | Prosthetic Valve for Transluminal Delivery                                      |
| P0035365.08    | 13/104,828         | 5/10/2011  | 8,801,779 | 8/12/2014  | Prosthetic Valve for Transluminal Delivery                                      |
| P0035365.USC10 | 13/243,967         | 9/23/2011  | 8,721,708 | 5/13/2014  | Prosthetic Valve For Transluminal Delivery                                      |
| P0035365.USC11 | 13/313,556         | 12/7/2011  | 8,876,896 | 11/4/2014  | PROSTHETIC VALVE FOR TRANSLUMINAL DELIVERY                                      |
| P0035365.USC12 | 95/001,921         | 3/2/2012   |           |            | PROSTHETIC VALVE FOR TRANSLUMINAL DELIVERY                                      |
| P0035365.USC13 | 14/064,979         | 10/28/2013 |           |            | METHODS FOR TRANSLUMINAL DELIVERY OF PROSTHETIC VALVES                          |
| P0035365.USC14 | 14/177,816         | 2/11/2014  |           |            | TRANSCATHETER HEART VALVES (TRACK I)                                            |
| P0035365.USC15 | 14/177,811         | 2/11/2014  |           |            | TRANSCATHETER HEART VALVES (TRACK I)                                            |
| P0035365.USC16 | 14/177,806         | 2/11/2014  |           |            | TRANSCATHETER HEART VALVES (TRACK I)                                            |
| P0035365.USR17 | 14/449,551         | 8/1/2014   |           |            | PROSTHETIC VALVE FOR TRANSLUMINAL DELIVERY                                      |
| P0035365.USR18 |                    |            |           |            | PROSTHETIC VALVE FOR TRANSLUMINAL DELIVERY                                      |
| P0035366.00    | 60/684,192         | 5/24/2005  |           |            | A NON-CYLINDRICAL PROSTHETIC VALVE SYSTEM FOR TRANSLUMINAL DELIVERY             |
| P0035366.00    |                    |            |           |            | CoreValve - A Non-Cylindrical Prosthetic Valve System for Transluminal Delivery |
| P0035366.01    | 11/434,506         | 5/15/2006  |           |            | A NON-CYLINDRICAL PROSTHETIC VALVE SYSTEM FOR TRANSLUMINAL DELIVERY             |
| P0035366.02    | PCT/US2006/020 012 | 5/24/2006  |           |            | A NON-CYLINDRICAL PROSTHETIC VALVE SYSTEM FOR TRANSLUMINAL DELIVERY             |

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| P0035366.03 | 2006250076  | 5/24/2006  | 2006250076    | 9/20/2012 | A NON-CYLINDRICAL PROSTHETIC VALVE SYSTEM FOR TRANSLUMINAL DELIVERY                  |
| P0035366.04 | 2614489     | 5/24/2006  |               |           | A NON-CYLINDRICAL PROSTHETIC VALVE SYSTEM FOR TRANSLUMINAL DELIVERY                  |
| P0035366.05 | 06771018.6  | 5/24/2006  |               |           | A NON-CYLINDRICAL PROSTHETIC VALVE SYSTEM FOR TRANSLUMINAL DELIVERY                  |
| P0035366.06 | 2008-513644 | 5/24/2006  | 5506193       | 3/28/2014 | A NON-CYLINDRICAL PROSTHETIC VALVE SYSTEM FOR TRANSLUMINAL DELIVERY                  |
| P0035366.07 | 564388      | 5/24/2006  |               |           | A NON-CYLINDRICAL PROSTHETIC VALVE SYSTEM FOR TRANSLUMINAL DELIVERY                  |
| P0035367.00 |             |            |               |           | Core Valve - Tubular Support for Setting, By Percutaneous Route, a Substitution Cusp |
| P0035367.01 | FR01/03258  | 10/19/2001 |               |           | TUBULAR SUPPORT FOR SETTING, BY PERCUTANEOUS ROUTE, A SUBSTITUTION CUSP              |
| P0035367.02 | 2002212418  | 10/19/2001 | 2002212418    | 7/13/2006 | TUBULAR SUPPORT FOR SETTING, BY PERCUTANEOUS ROUTE, A SUBSTITUTION CUSP              |
| P0035367.03 | 2425342     | 10/19/2001 | 2425342       | 12/7/2010 | TUBULAR SUPPORT FOR SETTING, BY PERCUTANEOUS ROUTE, A SUBSTITUTION CUSP              |
| P0035367.04 | 01980615.7  | 10/19/2001 | 1330213       | 4/3/2009  | TUBULAR SUPPORT FOR SETTING, BY PERCUTANEOUS ROUTE, A SUBSTITUTION CUSP              |
| P0035367.04 | 01980615.7  | 10/19/2001 | 1330213       | 4/3/2009  | TUBULAR SUPPORT FOR SETTING, BY PERCUTANEOUS ROUTE, A SUBSTITUTION CUSP              |
| P0035367.04 | 01980615.7  | 10/19/2001 | 1330213       | 4/3/2009  | TUBULAR SUPPORT FOR SETTING, BY PERCUTANEOUS ROUTE, A SUBSTITUTION CUSP              |
| P0035367.04 | 01980615.7  | 10/19/2001 | 60137863.6-08 | 4/3/2009  | TUBULAR SUPPORT FOR SETTING, BY PERCUTANEOUS ROUTE, A SUBSTITUTION CUSP              |
| P0035367.04 | 01980615.7  | 10/19/2001 | 1330213       | 4/3/2009  | TUBULAR SUPPORT FOR SETTING, BY PERCUTANEOUS ROUTE, A SUBSTITUTION CUSP              |
| P0035367.04 | 01980615.7  | 10/19/2001 | 1330213       | 4/3/2009  | TUBULAR SUPPORT FOR SETTING, BY PERCUTANEOUS ROUTE, A SUBSTITUTION CUSP              |
| P0035367.04 | 01980615.7  | 10/19/2001 | 1330213       | 4/3/2009  | TUBULAR SUPPORT FOR SETTING, BY PERCUTANEOUS ROUTE, A SUBSTITUTION CUSP              |
| P0035367.04 | 01980615.7  | 10/19/2001 | 1330213       | 4/3/2009  | TUBULAR SUPPORT FOR SETTING, BY PERCUTANEOUS ROUTE, A SUBSTITUTION CUSP              |
| P0035367.05 | 2002-538860 | 10/19/2001 | 4130770       | 5/30/2008 | TUBULAR SUPPORT FOR SETTING, BY PERCUTANEOUS ROUTE, A SUBSTITUTION CUSP              |

|             |             |          |               |            |  |  |                                                                                                                                           |
|-------------|-------------|----------|---------------|------------|--|--|-------------------------------------------------------------------------------------------------------------------------------------------|
| P0035368.00 |             |          |               |            |  |  | CoreValve - Kit Enabling a Prosthetic Valve to be Placed in a Body Enabling a Prosthetic Valve to be put into Place in a Duct in the Body |
| P0035368.00 | 01/08898    | 7/4/2001 | 2826863       | 1/10/2003  |  |  | KIT ENABLING A PROSTHETIC VALVE TO BE PLACED IN A BODY ENABLING A PROSTHETIC VALVE TO BE PUT INTO PLACE IN A DUCT IN THE BODY             |
| P0035368.01 | FR02/02352  | 7/4/2002 |               |            |  |  | ASSEMBLY FOR PLACING A PROSTHETIC VALVE IN A DUCT IN THE BODY                                                                             |
| P0035368.01 |             |          |               |            |  |  | KIT ENABLING A PROSTHETIC VALVE TO BE PLACED IN A BODY ENABLING A PROSTHETIC VALVE TO BE PUT INTO PLACE IN A DUCT IN THE BODY             |
| P0035368.02 | 2002-329324 | 7/4/2002 | 2002-329324   | 10/25/2007 |  |  | KIT ENABLING A PROSTHETIC VALVE TO BE PLACED IN A BODY ENABLING A PROSTHETIC VALVE TO BE PUT INTO PLACE IN A DUCT IN THE BODY             |
| P0035368.03 | 2,450,935   | 7/4/2002 | 2,450,935     | 9/21/2010  |  |  | KIT ENABLING A PROSTHETIC VALVE TO BE PLACED IN A BODY ENABLING A PROSTHETIC VALVE TO BE PUT INTO PLACE IN A DUCT IN THE BODY             |
| P0035368.04 | 02764940.9  | 7/4/2002 | 1401359       | 8/26/2009  |  |  | KIT ENABLING A PROSTHETIC VALVE TO BE PLACED IN A BODY ENABLING A PROSTHETIC VALVE TO BE PUT INTO PLACE IN A DUCT IN THE BODY             |
| P0035368.04 | 02764940.9  | 7/4/2002 | 1401359       | 8/26/2009  |  |  | KIT ENABLING A PROSTHETIC VALVE TO BE PLACED IN A BODY ENABLING A PROSTHETIC VALVE TO BE PUT INTO PLACE IN A DUCT IN THE BODY             |
| P0035368.04 | 02764940.9  | 7/4/2002 | 60233493.4-08 | 8/26/2009  |  |  | KIT ENABLING A PROSTHETIC VALVE TO BE PLACED IN A BODY ENABLING A PROSTHETIC VALVE TO BE PUT INTO PLACE IN A DUCT IN THE BODY             |
| P0035368.04 | 02764940.9  | 7/4/2002 | 1401359       | 8/26/2009  |  |  | KIT ENABLING A PROSTHETIC VALVE TO BE PLACED IN A BODY ENABLING A PROSTHETIC VALVE TO BE PUT INTO PLACE IN A DUCT IN THE BODY             |

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| P0035368.04    | 02764940.9        | 7/4/2002   | 1401359    | 8/26/2009 | KIT ENABLING A PROSTHETIC VALVE TO BE PLACED IN A BODY ENABLING A PROSTHETIC VALVE TO BE PUT INTO PLACE IN A DUCT IN THE BODY |
| P0035368.05    | 2003509965        | 7/4/2002   | 4364633    | 8/28/2009 | ASSEMBLY FOR SETTING A VALVE PROSTHESIS IN A CORPOREAL DUCT                                                                   |
| P0035368.06    | 10/482,270        | 7/4/2002   | 7,252,682  | 8/7/2007  | KIT ENABLING A PROSTHETIC VALVE TO BE PLACED IN A BODY ENABLING A PROSTHETIC VALVE TO BE PUT INTO PLACE IN A DUCT IN THE BODY |
| P0035368.07    | 11/829,682        | 7/27/2007  | 7,780,726  | 8/24/2010 | ASSEMBLY FOR PLACING A PROSTHETIC VALVE IN A DUCT IN THE BODY                                                                 |
| P0035368.08    | 12/578,818        | 10/14/2009 | 8002826    | 8/23/2011 | ASSEMBLY FOR PLACING A PROSTHETIC VALVE IN A DUCT IN THE BODY                                                                 |
| P0035368.USC16 | 13/212,227        | 8/18/2011  | 8,628,570  | 1/14/2014 | Assembly for Placing a Prosthetic Valve in a Duct in the Body                                                                 |
| P0035368.USC17 | 14/138,229        | 12/23/2013 |            |           | HEART VALVE ASSEMBLIES                                                                                                        |
| P0035369.00    | 01/10281          | 7/30/2001  | 2828091    | 2/7/2003  | ASSEMBLY FOR SETTING A VALVE PROSTHESIS IN A CORPOREAL DUCT                                                                   |
| P0035369.00    |                   |            |            |           | Core Valve - Assembly For Setting a Valve Prosthesis in a Corporeal Duct                                                      |
| P0035369.01    | PCT/FR2002/002745 | 7/31/2002  |            |           | ASSEMBLY FOR SETTING A VALVE PROSTHESIS IN A CORPOREAL DUCT                                                                   |
| P0035369.02    | 2002-334045       | 7/30/2002  | 2002334045 | 11/8/2007 | ASSEMBLY FOR SETTING A VALVE PROSTHESIS IN A CORPOREAL DUCT                                                                   |
| P0035369.03    | 2,456,002         | 7/30/2002  | 2,456,002  | 7/20/2010 | ASSEMBLY FOR SETTING A VALVE PROSTHESIS IN A CORPOREAL DUCT                                                                   |
| P0035369.04    | 02791513.1        | 7/30/2002  | 1411865    | 8/26/2009 | ASSEMBLY FOR SETTING A VALVE PROSTHESIS IN A CORPOREAL DUCT                                                                   |
| P0035369.04    | 60233503.5        | 7/30/2002  | 1411865    | 8/26/2009 | ASSEMBLY FOR SETTING A VALVE PROSTHESIS IN A CORPOREAL DUCT                                                                   |
| P0035369.04    | 02791513.1        | 7/30/2002  | 1411865    | 8/26/2009 | ASSEMBLY FOR SETTING A VALVE PROSTHESIS IN A CORPOREAL DUCT                                                                   |
| P0035369.04    | 02791513.1        | 7/30/2002  | 1411865    | 8/26/2009 | ASSEMBLY FOR SETTING A VALVE PROSTHESIS IN A CORPOREAL DUCT                                                                   |
| P0035369.04    | 02791513.1        | 7/30/2002  | 1411865    | 8/26/2009 | ASSEMBLY FOR SETTING A VALVE PROSTHESIS IN A CORPOREAL DUCT                                                                   |
| P0035369.04    | 02791513.1        | 7/30/2002  | 1411865    | 8/26/2009 | ASSEMBLY FOR SETTING A VALVE PROSTHESIS IN A CORPOREAL DUCT                                                                   |

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| P0035369.04 | 02791513.1         | 7/30/2002 | 1411865           | 8/26/2009 | ASSEMBLY FOR SETTING A VALVE PROSTHESIS IN A CORPOREAL DUCT                                        |
| P0035369.05 | 2003-516429        | 7/30/2002 | 4212474           | 11/7/2008 | ASSEMBLY FOR SETTING A VALVE PROSTHESIS IN A CORPOREAL DUCT                                        |
| P0035369.06 | 10/484,865         | 9/22/2004 | 7,682,390         | 3/23/2010 | ASSEMBLY FOR SETTING A VALVE PROSTHESIS IN A CORPOREAL DUCT                                        |
| P0035370.00 |                    |           |                   |           | CoreValve - Systems and Methods For Loading a Prosthesis Onto a Minimally Invasive Delivery System |
| P0035370.00 | 60/984,110         | 5/24/2005 |                   |           | SYSTEMS AND METHODS FOR LOADING A PROSTHESIS ONTO A MINIMALLY INVASIVE DELIVERY SYSTEM             |
| P0035370.01 | 60/790,636         | 4/10/2006 |                   |           | SYSTEMS AND METHODS FOR LOADING A PROSTHESIS ONTO A MINIMALLY INVASIVE DELIVERY SYSTEM             |
| P0035370.02 | 11/488,395         | 7/18/2006 |                   |           | SYSTEMS AND METHODS FOR LOADING A PROSTHESIS ONTO A MINIMALLY INVASIVE DELIVERY SYSTEM             |
| P0035370.03 | PCT/US2007/008 332 | 4/5/2007  |                   |           | SYSTEMS AND METHODS FOR LOADING A PROSTHESIS ONTO A MINIMALLY INVASIVE DELIVERY SYSTEM             |
| P0035370.04 | 2007238937         | 4/5/2007  | 2007238937        | 11/7/2013 | SYSTEMS AND METHODS FOR LOADING A PROSTHESIS ONTO A MINIMALLY INVASIVE DELIVERY SYSTEM             |
| P0035370.05 | 2649156            | 4/5/2007  |                   |           | SYSTEMS AND METHODS FOR LOADING A PROSTHESIS ONTO A MINIMALLY INVASIVE DELIVERY SYSTEM             |
| P0035370.06 | 200780020404.5     | 4/5/2007  | ZL 200780020404.5 | 6/12/2013 | SYSTEMS AND METHODS FOR LOADING A PROSTHESIS ONTO A MINIMALLY INVASIVE DELIVERY SYSTEM             |
| P0035370.07 | 07754796.6         | 4/5/2007  |                   |           | SYSTEMS AND METHODS FOR LOADING A PROSTHESIS ONTO A MINIMALLY INVASIVE DELIVERY SYSTEM             |
| P0035370.08 | 2009-505388        | 4/5/2007  | 5249922           | 4/19/2013 | SYSTEMS AND METHODS FOR LOADING A PROSTHESIS ONTO A MINIMALLY INVASIVE DELIVERY SYSTEM             |

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| P0035370.EPV9 | 13152009.0            | 4/5/2007  |                      |            |  | SYSTEMS AND METHODS FOR LOADING A PROSTHESIS ONTO A MINIMALLY INVASIVE DELIVERY SYSTEM             |
| P0035371.00   | 60/868,891            | 12/6/2006 |                      |            |  | SYSTEM AND METHOD FOR TRANSAPICAL DELIVERY OF AN ANNULUS ANCHORED SELF-EXPANDING VALVE             |
| P0035371.00   |                       |           |                      |            |  | CoreValve - System and Method for Transapical Delivery of an Annulus Anchored Self-Expanding Valve |
| P0035371.01   | 11/952,080            | 12/6/2007 | 8,747,459            | 6/10/2014  |  | SYSTEM AND METHOD FOR TRANSAPICAL DELIVERY OF AN ANNULUS ANCHORED SELF-EXPANDING VALVE             |
| P0035371.02   | PCT/US2007/086<br>685 | 12/6/2007 |                      |            |  | SYSTEM AND METHOD FOR TRANSAPICAL DELIVERY OF AN ANNULUS ANCHORED SELF-EXPANDING VALVE             |
| P0035371.03   | 2007329243            | 12/6/2007 |                      |            |  | SYSTEM AND METHOD FOR TRANSAPICAL DELIVERY OF AN ANNULUS ANCHORED SELF-EXPANDING VALVE             |
| P0035371.04   | 2671754               | 12/6/2007 |                      |            |  | SYSTEM AND METHOD FOR TRANSAPICAL DELIVERY OF AN ANNULUS ANCHORED SELF-EXPANDING VALVE             |
| P0035371.05   | 200780051002.1        | 12/6/2007 | Z12007800510<br>02.1 | 12/18/2013 |  | SYSTEM AND METHOD FOR TRANSAPICAL DELIVERY OF AN ANNULUS ANCHORED SELF-EXPANDING VALVE             |
| P0035371.06   | 07865332.6            | 12/6/2007 |                      |            |  | SYSTEM AND METHOD FOR TRANSAPICAL DELIVERY OF AN ANNULUS ANCHORED SELF-EXPANDING VALVE             |
| P0035371.07   | 2009-540482           | 12/6/2007 | 5593545              | 8/15/2014  |  | SYSTEM AND METHOD FOR TRANSAPICAL DELIVERY OF AN ANNULUS ANCHORED SELF-EXPANDING VALVE             |
| P0035371.USV8 | 14/229,518            | 3/28/2014 |                      |            |  | METHODS FOR DELIVERING A SELF-EXPANDING VALVE                                                      |
| P0035373.00   |                       |           |                      |            |  | CoreValve - Heart Valve Prosthesis and Methods for Manufacture and Use                             |
| P0035373.00   | 11/128,826            | 5/13/2005 | 7,914,569            | 3/29/2011  |  | HEART VALVE PROSTHESIS AND METHODS FOR MANUFACTURE AND USE                                         |



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| P0035373.09    | 11156387.0        | 5/12/2006  |           |           |  | HEART VALVE PROSTHESIS AND METHODS FOR MANUFACTURE AND USE                        |
| P0035373.10    | 13/072,194        | 3/25/2011  | 8,226,710 | 7/24/2012 |  | HEART VALVE PROSTHESIS AND METHODS FOR MANUFACTURE AND USE                        |
| P0035373.AUV23 | 2012203291        | 6/4/2012   |           |           |  | HEART VALVE PROSTHESIS AND METHODS FOR MANUFACTURE AND USE                        |
| P0035373.USC24 | 13/526,951        | 6/19/2012  |           |           |  | HEART VALVE PROSTHESIS AND METHODS OF MANUFACTURE AND USE                         |
| P0035373.USD22 | 29/399,122        | 8/9/2011   |           |           |  | HEART VALVE PROSTHESIS                                                            |
| P0035374.00    |                   |            |           |           |  | CoreValve - Delivery System For Deployment of Medical Devices                     |
| P0035374.00    | 12/253,858        | 10/17/2008 |           |           |  | DELIVERY SYSTEM FOR DEPLOYMENT OF MEDICAL DEVICES                                 |
| P0035374.01    | PCT/US2009/060601 | 10/14/2009 |           |           |  | COREVALVE - DELIVERY SYSTEM FOR DEPLOYMENT FOR MEDICAL DEVICES                    |
| P0035374.02    | 09741126.8        | 10/14/2009 |           |           |  | COREVALVE - DELIVERY SYSTEM FOR DEPLOYMENT FOR MEDICAL DEVICES                    |
| P0035375.00    | 12/212,620        | 9/17/2008  | 8,721,714 | 5/13/2014 |  | DELIVERY SYSTEM FOR DEPLOYMENT OF MEDICAL DEVICES                                 |
| P0035375.00    |                   |            |           |           |  | CoreValve - Delivery System For Deployment of Medical Devices                     |
| P0035375.01    | PCT/US2009/057315 | 9/17/2009  |           |           |  | CoreValve - Delivery System For Deployment of Medical Devices                     |
| P0035375.02    | 200980136993.2    | 9/17/2009  |           |           |  | CoreValve - Delivery System For Deployment of Medical Devices                     |
| P0035375.03    | 09792659.6        | 9/17/2009  |           |           |  | CoreValve - Delivery System For Deployment of Medical Devices                     |
| P0035375.04    | 2011-527958       | 9/17/2009  |           |           |  | CoreValve - Delivery System For Deployment of Medical Devices                     |
| P0035375.05    | 10-2011-7008703   | 9/17/2009  |           |           |  | CoreValve - Delivery System For Deployment of Medical Devices                     |
| P0035375.USV6  | 14/229,535        | 3/28/2014  |           |           |  | METHODS FOR DEPLOYMENT OF MEDICAL DEVICES                                         |
| P0035376.00    |                   |            |           |           |  | CoreValve - Material for Treatment of a Heart Valve, In Particular a Mitral Valve |
| P0035376.00    | 0611284           | 12/22/2006 | 2910269   | 2/27/2009 |  | MATERIAL FOR TREATMENT OF A HEART VALVE, IN PARTICULAR A MITRAL VALVE             |

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|-------------|---------------|------------|------------|-----------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| P0035376.01 | 60/876,547    | 12/22/2006 |            |           |  | MATERIAL FOR TREATMENT OF A HEART VALVE, IN PARTICULAR A MITRAL VALVE                                                                                    |
| P0035376.02 | IB2007/003975 | 12/18/2007 |            |           |  | MATERIAL FOR TREATMENT OF A HEART VALVE, IN PARTICULAR A MITRAL VALVE                                                                                    |
| P0035376.03 | 07866565.0    | 12/18/2007 |            |           |  | MATERIAL FOR TREATMENT OF A HEART VALVE, IN PARTICULAR A MITRAL VALVE                                                                                    |
| P0035376.04 | 12/519,498    | 12/18/2007 |            |           |  | MATERIAL FOR TREATMENT OF A HEART VALVE, IN PARTICULAR A MITRAL VALVE                                                                                    |
| P0035378.00 | 0702889       | 4/20/2007  |            |           |  | IMPLANT FOR TREATMENT OF A HEART VALVE, IN PARTICULAR A MITRAL VALVE, MATERIAL INCLUDING SUCH AN IMPLANT, AND MATERIAL FOR INSERTION THEREOF             |
| P0035378.00 |               |            |            |           |  | CoreValve - Implant for Treatment of a Heart Valve, In Particular a Mitral Valve, Material Including Such an Implant, and Material for Insertion Thereof |
| P0035378.01 | 60/907,907    | 4/20/2007  |            |           |  | IMPLANT FOR TREATMENT OF A HEART VALVE, IN PARTICULAR A MITRAL VALVE, MATERIAL INCLUDING SUCH AN IMPLANT, AND MATERIAL FOR INSERTION THEREOF             |
| P0035378.02 | IB2008/000971 | 4/14/2008  |            |           |  | IMPLANT FOR TREATMENT OF A HEART VALVE, IN PARTICULAR A MITRAL VALVE, MATERIAL INCLUDING SUCH AN IMPLANT, AND MATERIAL FOR INSERTION THEREOF             |
| P0035378.03 | 12/596,343    | 4/14/2008  |            |           |  | IMPLANT FOR TREATMENT OF A HEART VALVE, IN PARTICULAR A MITRAL VALVE, MATERIAL INCLUDING SUCH AN IMPLANT, AND MATERIAL FOR INSERTION THEREOF             |
| P0035400.00 |               |            |            |           |  | Corevalve - Improved Catheter For Mitral Valve Repair                                                                                                    |
| P0035400.00 | 61/144,655    | 1/14/2009  |            |           |  | CATHETER FOR MITRAL VALVE REPAIR                                                                                                                         |
| P0035669.00 |               |            |            |           |  | CoreValve - APPARATUS FOR TREATING OF A HEART VALVE, IN PARTICULAR A MITRAL VALVE                                                                        |
| P0035669.00 | 08-02164      | 4/18/2008  | FR 2930137 | 4/23/2010 |  | APPARATUS FOR TREATING OF A HEART VALVE, IN PARTICULAR A MITRAL VALVE                                                                                    |
| P0035669.01 | 61/129,170    | 6/9/2008   |            |           |  | APPARATUS FOR TREATING OF A HEART VALVE, IN PARTICULAR A MITRAL VALVE                                                                                    |

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|---------------|------------|------------|-----------|-----------|--------------------------------------------------------------------|
| P0035669.02   | 12/481,350 | 6/9/2009   | 8,262,724 | 9/11/2012 | APPARATUS FOR TREATING A HEART VALVE, IN PARTICULAR A MITRAL VALVE |
| P0035669.USC4 | 14/090,978 | 11/26/2013 |           |           | METHODS FOR TREATING A HEART VALVE, IN PARTICULAR A MITRAL VALVE   |
| P0035669.USV3 | 13/572,226 | 8/10/2012  | 8,632,585 | 1/21/2014 | APPARATUS FOR TREATING A HEART VALVE, IN PARTICULAR A MITRAL VALVE |