

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

Assignment ID: PATI239993

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY	12/24/2020
RECEIVING PARTY DATA	
Company Name:	MALLINCKRODT PHARMACEUTICALS IRELAND LIMITED
Street Address:	COLLEGE BUSINESS & TECHNOLOGY PARK
Internal Address:	CRUISERATH, BLANCHARDSTOWN
City:	DUBLIN
State/Country:	IRELAND
Postal Code:	15
PROPERTY NUMBERS Total: 6	
Property Type	Number
Application Number:	16906976
Application Number:	18640626
Application Number:	15570996
Application Number:	15261968
Application Number:	16537103
Application Number:	15737163
CORRESPONDENCE DATA	
Fax Number:	3036342020
<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>	
Phone:	(602)382-6000
Email:	IPDOCKET@swlaw.com,ksandoval@swlaw.com
Correspondent Name:	Mr. Howard Sobelman
Address Line 1:	1 EAST WASHINGTON STREET
Address Line 2:	SUITE 2700
Address Line 4:	PHOENIX, ARIZONA 85004
ATTORNEY DOCKET NUMBER:	79938.00001
NAME OF SUBMITTER:	KAYLEIGH SANDOVAL
SIGNATURE:	KAYLEIGH SANDOVAL
DATE SIGNED:	05/17/2024

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INTELLECTUAL PROPERTY ASSET PURCHASE AGREEMENT

This INTELLECTUAL PROPERTY ASSET PURCHASE AGREEMENT (this "Agreement"), is effective as of the Effective Time on 24 December 2020 by and among **MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY**, a private unlimited company incorporated in Ireland with company number 568351 and having its registered office at College Business & Technology Park, Cruiserath, Blanchardstown, Dublin 15 ("Seller") and **MALLINCKRODT PHARMACEUTICALS IRELAND LIMITED**, a private limited company incorporated in Ireland with company number 548294 and having its registered office at College Business & Technology Park, Cruiserath, Blanchardstown, Dublin 15 ("Purchaser") (collectively, the "Parties").

[REDACTED]

ARTICLE II

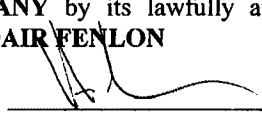
TRANSFER OF ASSETS AND LIABILITIES

2.1 Purchase and Sale of the Intellectual Property. Upon the terms and subject to the conditions of this Agreement, Seller hereby irrevocably sells, transfers, conveys, assigns and delivers to Purchaser and Purchaser hereby purchases, acquires and accepts from Seller, with full title guarantee (for the avoidance of doubt, to include full legal and beneficial title) and subject to the Existing Security and the Existing Claims, all right, title and interest in and to the Intellectual Property, including all common law rights connected thereto and all rights of action, powers, benefits and immunities belonging to the same wherever in the world, including the right to sue for and obtain damages and other relief in respect of any act of infringement and other causes of action (whether past, present or future) of or relating to the Intellectual Property or any part thereof and the violation of any common law rights connected with the Intellectual Property.

[REDACTED]

Each of the Parties to this Agreement has caused this Agreement to be executed on its behalf by its duly authorized signatory, to be effective as of the day and year first written above.

For and on behalf of **MALLINCKRODT
HOSPITAL PRODUCTS IP UNLIMITED
COMPANY** by its lawfully appointed attorney,
ALASDAIR FENLON

By: 
Date: 24 December 2020

For and on behalf of **MALLINCKRODT
PHARMACEUTICALS IRELAND LIMITED
COMPANY** by its lawfully appointed attorney
AARON KEOGH

By: _____
Date: _____

SIGNATURE PAGE TO INTELLECTUAL PROPERTY ASSET PURCHASE AGREEMENT

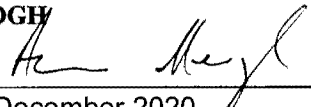
PATENT
REEL: 067454 FRAME: 0777

Each of the Parties to this Agreement has caused this Agreement to be executed on its behalf by its duly authorized signatory, to be effective as of the day and year first written above.

For and on behalf of **MALLINCKRODT
HOSPITAL PRODUCTS IP UNLIMITED
COMPANY** by its lawfully appointed attorney,
ALASDAIR FENLON

By: _____
Date: _____

For and on behalf of **MALLINCKRODT
PHARMACEUTICALS IRELAND LIMITED
COMPANY** by its lawfully appointed attorney
AARON KEOGH

By:  _____
Date: 24 December 2020

SIGNATURE PAGE TO INTELLECTUAL PROPERTY ASSET PURCHASE AGREEMENT

PATENT
REEL: 067454 FRAME: 0778

[REDACTED]

Docket Number	Sub Case	Country	Title	Application No.	Filing Date	Patent No.	Issue Date	Expiration Date	Status	Legal Owner
H-AD-00003		United States	METHODS FOR REDUCING THE RISK OF AN ADVERSE DRUG INTERACTION IN A PATIENT SUFFERING FROM INSOMNIA	12/132575	03-Jun-2008	7608616	27-Oct-2009	03-Jun-2028	Granted	MALLINCKRODT ARD IP UNLIMITED COMPANY
H-AD-00009		United States	ACTH PROPHYLACTIC TREATMENT OF RENAL DISORDERS	13/281175	25-Oct-2011	8796416	05-Aug-2014	25-Oct-2031	Granted	MALLINCKRODT ARD IP UNLIMITED COMPANY/RHODE ISLAND HOSPITAL
H-AD-00009	C1	United States	ACTH PROPHYLACTIC TREATMENT OF RENAL DISORDERS	14/313903	24-Jun-2014	9550822	24-Jan-2017	25-Oct-2031	Granted	MALLINCKRODT ARD IP UNLIMITED COMPANY/RHODE ISLAND HOSPITAL
H-AD-00009	C2	United States	ACTH PROPHYLACTIC TREATMENT OF RENAL DISORDERS	15/383969	19-Dec-2016	10286041	14-May-2019	25-Oct-2031	Granted	MALLINCKRODT ARD IP UNLIMITED COMPANY/RHODE ISLAND HOSPITAL
H-AD-00009	C3	United States	ACTH PROPHYLACTIC TREATMENT OF RENAL DISORDERS	16/369690	29-Mar-2019				Published	MALLINCKRODT ARD IP UNLIMITED COMPANY/RHODE ISLAND HOSPITAL
H-AD-00012		United States	ACTH FOR TREATMENT OF ACUTE RESPIRATORY DISTRESS SYNDROME	14/214449	14-Mar-2014	10232018	19-Mar-2019	08-Jun-2034	Granted	MALLINCKRODT ARD IP UNLIMITED COMPANY
H-AD-00012	C1	United States	ACTH FOR TREATMENT OF ACUTE RESPIRATORY DISTRESS SYNDROME	16/251363	18-Jan-2019				Published	MALLINCKRODT ARD IP UNLIMITED COMPANY
H-AD-00013		Patent Cooperation Treaty	METHODS OF MODULATING CORTICOSTEROID RESPONSE	US2020/014444	21-Jan-2020				Published	MALLINCKRODT ARD IP UNLIMITED COMPANY
H-AD-00014		Patent Cooperation Treaty	REPOSITORY CORTICOTROPIN INJECTION ENHANCED REMYELINATION AFTER CUPRIZONE-INDUCED	US2020/012561	07-Jan-2020				Published	MALLINCKRODT ARD IP UNLIMITED COMPANY
H-AD-00015	P2	United States	REPOSITORY CORTICOTROPIN INJECTION EFFECTS IN PATIENTS WITH REFRACTORY SYSTEMIC LUPUS	63/018894	01-May-2020			01-May-2021	Pending	MALLINCKRODT ARD IP UNLIMITED COMPANY
H-AD-00015	P3	United States	REPOSITORY CORTICOTROPIN INJECTION EFFECTS IN PATIENTS WITH REFRACTORY SYSTEMIC LUPUS	63/079315	16-Sep-2020			16-Sep-2021	Pending	MALLINCKRODT ARD IP UNLIMITED COMPANY

PATENT

REEL: 067454 FRAME: 0780

H-AD-00015	P4	United States	METHODS FOR MODULATING CORTICOSTEROID RESPONSE	63/083532	25-Sep-2020			25-Sep-2021	Pending	MALLINCKRODT ARD IP UNLIMITED COMPANY
H-AD-00017	P1	United States	METHODS OF MODULATING PERICYTES	62/981283	25-Feb-2020			25-Feb-2021	Pending	MALLINCKRODT ARD IP UNLIMITED COMPANY

[REDACTED]

MNK Case No.	Sub Case	Country	Title	Application No.	Filing Date	Patent No.	Issue Date	Expiration Date	Status	Legal Owner
H-IC-00002		United States	PREPARATION OF METAL MESOPORPHYRIN HALIDE COMPOUNDS	10453815	03-Jun-2003	6818763	16-Nov-2004	03-Jun-2023	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00002	T.1	United States	PREPARATION OF METAL MESOPORPHYRIN HALIDE COMPOUNDS	10/612156	29-Mar-2004	7376216	20-May-2008	03-Jun-2023	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00002	C1	United States	PREPARATION OF METAL MESOPORPHYRIN HALIDE COMPOUNDS	11/957317	14-Dec-2007	7777028	17-Aug-2010	03-Jun-2023	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00002	C2	United States	PREPARATION OF METAL MESOPORPHYRIN HALIDE COMPOUNDS	12/633873	09-Jul-2010	6178664	15-May-2012	03-Jun-2023	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00002		Mexico	PREPARATION OF METAL MESOPORPHYRIN HALIDE COMPOUNDS	PA/a/2004/012045	03-Jun-2003	302238	10-Aug-2012	03-Jun-2023	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00002	D1	Mexico	PREPARATION OF METAL MESOPORPHYRIN HALIDE COMPOUNDS	MX/a/2012/007301	03-Jun-2003	317160	14-Jan-2014	03-Jun-2023	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00002	T.1	Canada	PREPARATION OF METAL MESOPORPHYRIN HALIDE COMPOUNDS	2661497	24-Nov-2004	2561497	01-May-2012	24-Nov-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00003	C1	United States	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNOPORFIN	12/89851	15-Dec-2010	8530458	10-Sep-2013	04-Oct-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00003	C2	United States	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNOPORFIN	14/019513	05-Sep-2013	8535416	16-Sep-2014	04-Oct-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00003	C3	United States	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNOPORFIN	14/460060	14-Aug-2014	9107927	18-Aug-2015	04-Oct-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00003	C4	United States	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNOPORFIN	14/793921	08-Jul-2016	9517239	13-Dec-2016	04-Oct-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00003	C5	United States	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNOPORFIN	15/343967	04-Nov-2016	9902745	27-Feb-2018	04-Oct-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00003		Australia	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNOPORFIN	2007307111	04-Oct-2007	2007307111	21-Jun-2012	04-Oct-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00003		Canada	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNOPORFIN	2665075	04-Oct-2007	2665075	18-Mar-2014	04-Oct-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00003		China (People's Republic)	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNOPORFIN	200760043624.X	04-Oct-2007	101573122	03-Aug-2016	04-Oct-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00003		Eurasian Patent Organization	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNOPORFIN	200970344	04-Oct-2007	019884	30-Jun-2014	04-Oct-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00003		Israel	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNOPORFIN	197838	04-Oct-2007	197838	01-Mar-2017	04-Oct-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00003		India	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNOPORFIN	2754/DENP/2009	04-Oct-2007	272859	18-Apr-2016	04-Oct-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00003		Japan	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNOPORFIN	2009-531482	04-Oct-2007	5624622	18-Apr-2014	04-Oct-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00003		Korea, Republic of	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNOPORFIN	10-2009-7008733	04-Oct-2007	10-1263641	05-Apr-2013	04-Oct-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00003		Mexico	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNOPORFIN	MX/a/2009/003630	04-Oct-2007	790015	08-Sep-2011	04-Oct-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00003		New Zealand	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNOPORFIN	578030	04-Oct-2007	578030	08-Oct-2012	04-Oct-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00003		Ukraine	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNOPORFIN	200904320	04-Oct-2007	99904	25-Oct-2012	04-Oct-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00003		South Africa	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNOPORFIN	2009/02360	04-Oct-2007	2009/02360	27-Jun-2012	04-Oct-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00003		Albania	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNOPORFIN	07839341.0	04-Oct-2007	2079472	14-Sep-2011	04-Oct-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00003		Austria	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNOPORFIN	07839341.0	04-Oct-2007	2079472	14-Sep-2011	04-Oct-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00003		Bosnia and Herzegovina	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNOPORFIN	07839341.0	04-Oct-2007	2079472	14-Sep-2011	04-Oct-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00003		Belgium	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNOPORFIN	07839341.0	04-Oct-2007	2079472	14-Sep-2011	04-Oct-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY

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H-IC-00003		Sweden	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNSOPORFIN	07839341.0	04-Oct-2007	2079472	14-Sep-2011	04-Oct-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00003		Slovenia	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNSOPORFIN	07839341.0	04-Oct-2007	2079472	14-Sep-2011	04-Oct-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00003		Slovakia	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNSOPORFIN	07839341.0	04-Oct-2007	2079472	14-Sep-2011	04-Oct-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00003		Turkey	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNSOPORFIN	07839341.0	04-Oct-2007	2079472	14-Sep-2011	04-Oct-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00003	D1	Australia	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNSOPORFIN	2012202684	04-Oct-2007	2012202684	24-Jul-2014	04-Oct-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00003	D2	Australia	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNSOPORFIN	2014203754	04-Oct-2007	2014203754	14-Jul-2016	04-Oct-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00003	D3	Australia	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNSOPORFIN	2016200623	04-Oct-2007	2016200623	01-Feb-2018	04-Oct-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00003	D1	China (People's Republic)	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNSOPORFIN	20141018263 X	04-Oct-2007	104116745	09-Jul-2018	04-Oct-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00003	D1	Eurasian Patent Organization	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNSOPORFIN	201400124	04-Oct-2007	030262	31-Jul-2018	04-Oct-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00003	D1	Germany	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNSOPORFIN	11176115.1	04-Oct-2007	2384756	18-Sep-2015	04-Oct-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00003	D1	Spain	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNSOPORFIN	11176115.1	04-Oct-2007	2384756	18-Sep-2015	04-Oct-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00003	D1	France	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNSOPORFIN	11176115.1	04-Oct-2007	2384756	18-Sep-2015	04-Oct-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00003	D1	United Kingdom	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNSOPORFIN	11176115.1	04-Oct-2007	2384756	18-Sep-2015	04-Oct-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00003	D1	Italy	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNSOPORFIN	11176115.1	04-Oct-2007	2384756	18-Sep-2015	04-Oct-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00003		Hong Kong	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNSOPORFIN	09112035.3	04-Oct-2007	1132191	09-Mar-2012	04-Oct-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00003	D1	Hong Kong	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNSOPORFIN	12103633.4	04-Oct-2007	1162939	09-Sep-2018	04-Oct-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00003	D1	Israel	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNSOPORFIN	215978	04-Oct-2007	215978	01-Dec-2017	04-Oct-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00003	D1	Japan	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNSOPORFIN	2013-232129	04-Oct-2007	6195367	25-Aug-2017	04-Oct-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00003	D1	Korea, Republic of	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNSOPORFIN	10-2012-7032629	04-Oct-2007	10-1400714	22-May-2014	04-Oct-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00003	D1	Mexico	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNSOPORFIN	MX/a/2011/007519	04-Oct-2007	345035	16-Jan-2017	04-Oct-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00003	D1	New Zealand	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNSOPORFIN	599321	04-Oct-2007	599321	07-Jan-2014	04-Oct-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00003	D2	New Zealand	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNSOPORFIN	616673	04-Oct-2007	616673	30-Jun-2015	04-Oct-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00003	D3	New Zealand	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNSOPORFIN	703991	04-Oct-2007	703991	01-Nov-2016	04-Oct-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00003	D1	United States	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNSOPORFIN	16/857900	11-Jan-2018	10273255	30-Apr-2019	04-Oct-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00003	C8	United States	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNSOPORFIN	16/296603	11-Mar-2019	10682209	25-May-2020	04-Oct-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00003	D3	Korea, Republic of	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNSOPORFIN	10-2014-7023615	04-Oct-2007	10-1573013	24-Nov-2015	07-Oct-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00003		United States	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNSOPORFIN	11/067559	04-Oct-2007	7980371	14-Jun-2011	06-Apr-2028	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00003		Brazil	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNSOPORFIN	P10717775-5	04-Oct-2007	P10717775-5	13-Oct-2020	13-Oct-2030	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY

H-IC-00003		Norway	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNOPORFIN	20081575	04-Oct-2007				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00003	D1	India	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNOPORFIN	7080/DELNP/2015	04-Oct-2007				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00003	C7	United States	HIGH-PURITY LARGE-SCALE PREPARATION OF STANNOPORFIN	16/884510	01-May-2020				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00004		United States	METHODS FOR SYNTHESIZING METAL MESOPORPHYRINS	13/436888	30-Mar-2012	8735574	27-May-2014	30-Mar-2032	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00004	D1	United States	METHODS FOR SYNTHESIZING METAL MESOPORPHYRINS	14/253710	15-Apr-2014	9181285	10-Nov-2016	30-Mar-2032	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00004	D2	United States	METHODS FOR SYNTHESIZING METAL MESOPORPHYRINS	14/875141	05-Oct-2016	9888705	27-Jun-2017	30-Mar-2032	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00004		Austria	METHODS FOR SYNTHESIZING METAL MESOPORPHYRINS	12765367.3	30-Mar-2012	2691398	28-Sep-2016	30-Mar-2032	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00004		Belgium	METHODS FOR SYNTHESIZING METAL MESOPORPHYRINS	12765367.3	30-Mar-2012	2691398	28-Sep-2016	30-Mar-2032	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00004		Switzerland	METHODS FOR SYNTHESIZING METAL MESOPORPHYRINS	12765367.3	30-Mar-2012	2691398	28-Sep-2016	30-Mar-2032	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00004		Czech Republic	METHODS FOR SYNTHESIZING METAL MESOPORPHYRINS	12765367.3	30-Mar-2012	2691398	28-Sep-2016	30-Mar-2032	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00004		Germany	METHODS FOR SYNTHESIZING METAL MESOPORPHYRINS	12765367.3	30-Mar-2012	2691398	28-Sep-2016	30-Mar-2032	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00004		Denmark	METHODS FOR SYNTHESIZING METAL MESOPORPHYRINS	12765367.3	30-Mar-2012	2691398	28-Sep-2016	30-Mar-2032	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00004		Spain	METHODS FOR SYNTHESIZING METAL MESOPORPHYRINS	12765367.3	30-Mar-2012	2691398	28-Sep-2016	30-Mar-2032	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00004		Finland	METHODS FOR SYNTHESIZING METAL MESOPORPHYRINS	12765367.3	30-Mar-2012	2691398	28-Sep-2016	30-Mar-2032	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00004		France	METHODS FOR SYNTHESIZING METAL MESOPORPHYRINS	12765367.3	30-Mar-2012	2691398	28-Sep-2016	30-Mar-2032	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00004		United Kingdom	METHODS FOR SYNTHESIZING METAL MESOPORPHYRINS	12765367.3	30-Mar-2012	2691398	28-Sep-2016	30-Mar-2032	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00004		Greece	METHODS FOR SYNTHESIZING METAL MESOPORPHYRINS	12765367.3	30-Mar-2012	2691398	28-Sep-2016	30-Mar-2032	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00004		Hungary	METHODS FOR SYNTHESIZING METAL MESOPORPHYRINS	12765367.3	30-Mar-2012	2691398	28-Sep-2016	30-Mar-2032	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00004		Ireland	METHODS FOR SYNTHESIZING METAL MESOPORPHYRINS	12765367.3	30-Mar-2012	2691398	28-Sep-2016	30-Mar-2032	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00004		Italy	METHODS FOR SYNTHESIZING METAL MESOPORPHYRINS	12765367.3	30-Mar-2012	2691398	28-Sep-2016	30-Mar-2032	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00004		Netherlands	METHODS FOR SYNTHESIZING METAL MESOPORPHYRINS	12765367.3	30-Mar-2012	2691398	28-Sep-2016	30-Mar-2032	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00004		Norway	METHODS FOR SYNTHESIZING METAL MESOPORPHYRINS	12765367.3	30-Mar-2012	2691398	28-Sep-2016	30-Mar-2032	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00004		Poland	METHODS FOR SYNTHESIZING METAL MESOPORPHYRINS	12765367.3	30-Mar-2012	2691398	28-Sep-2016	30-Mar-2032	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00004		Portugal	METHODS FOR SYNTHESIZING METAL MESOPORPHYRINS	12765367.3	30-Mar-2012	2691398	28-Sep-2016	30-Mar-2032	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00004		Sweden	METHODS FOR SYNTHESIZING METAL MESOPORPHYRINS	12765367.3	30-Mar-2012	2691398	28-Sep-2016	30-Mar-2032	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00004		Turkey	METHODS FOR SYNTHESIZING METAL MESOPORPHYRINS	12765367.3	30-Mar-2012	2691398	28-Sep-2016	30-Mar-2032	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00004		Hong Kong	METHODS FOR SYNTHESIZING METAL MESOPORPHYRINS	14105082.6	30-Mar-2012	1191937	08-Sep-2017	30-Mar-2032	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00004	C1	United States	METHODS FOR SYNTHESIZING METAL MESOPORPHYRINS	16/125190	07-Sep-2018	10533024	14-Jan-2020	30-Mar-2032	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY

H-IC-00004	d3	United States	METHODS FOR SYNTHESIZING METAL MESOPORPHYRINS	15/903854	24-May-2017					Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IC-00005		Israel	METHODS FOR TREATING HYPERBILIRUBINEMIA WITH STANNOPORFIN	232791	30-Nov-2012	232791	29-May-2019	30-Nov-2032	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY	
H-IC-00005		Singapore	METHODS FOR TREATING HYPERBILIRUBINEMIA WITH STANNOPORFIN	11201402763	30-Nov-2012	11201402763	15-Jun-2017	30-Nov-2032	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY	
H-IC-00005	D1	Australia	METHODS FOR TREATING HYPERBILIRUBINEMIA WITH STANNOPORFIN	2016203281	30-Nov-2012	2016203281	26-Oct-2017	30-Nov-2032	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY	
H-IC-00005		United States	METHODS FOR TREATING HYPERBILIRUBINEMIA WITH STANNOPORFIN	13/691677	30-Nov-2012				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY	
H-IC-00006		China (People's Republic)	METHODS FOR TREATING HYPERBILIRUBINEMIA WITH STANNOPORFIN	201280068893.2	30-Nov-2012				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY	
H-IC-00005	C1	United States	METHODS FOR TREATING HYPERBILIRUBINEMIA WITH STANNOPORFIN	16/505295	08-Jul-2019				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY	
H-IC-00008		United States	METHODS FOR TREATING HYPERBILIRUBINEMIA WITH STANNOPORFIN AND PHOTOTHERAPY	16/300362	09-Nov-2018				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY	
H-IK-00001	1	United States	USE AND MONITORING OF INHALED NITRIC OXIDE WITH LEFT VENTRICULAR ASSIST DEVICES	15/419837	30-Jan-2017	10398820	03-Sep-2019	28-Apr-2037	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY	
H-IK-00001		Australia	USE AND MONITORING OF INHALED NITRIC OXIDE WITH LEFT VENTRICULAR ASSIST DEVICES	2017218391	30-Jan-2017				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY	
H-IK-00001		New Zealand	USE AND MONITORING OF INHALED NITRIC OXIDE WITH LEFT VENTRICULAR ASSIST DEVICES	744231	30-Jan-2017				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY	
H-IK-00001		Canada	USE AND MONITORING OF INHALED NITRIC OXIDE WITH LEFT VENTRICULAR ASSIST DEVICES	3012180	30-Jan-2017				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY	
H-IK-00001		Japan	USE AND MONITORING OF INHALED NITRIC OXIDE WITH LEFT VENTRICULAR ASSIST DEVICES	2016-542275	30-Jul-2017				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY	
H-IK-00001		United States	USE AND MONITORING OF INHALED NITRIC OXIDE WITH LEFT VENTRICULAR ASSIST DEVICES	16/077276	10-Aug-2018				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY	
H-IK-00001		European Patent Convention	USE AND MONITORING OF INHALED NITRIC OXIDE WITH LEFT VENTRICULAR ASSIST DEVICES	17750567.4	30-Jan-2017				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY	
H-IK-00001		China (People's Republic)	USE AND MONITORING OF INHALED NITRIC OXIDE WITH LEFT VENTRICULAR ASSIST DEVICES	201780018661.4	30-Jan-2017				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY	
H-IK-00001		Korea, Republic of	USE AND MONITORING OF INHALED NITRIC OXIDE WITH LEFT VENTRICULAR ASSIST DEVICES	10-2016-7026301	30-Jan-2017				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY	
H-IK-00002		United States	COMPENSATING FOR DISRUPTIONS IN BREATHING GAS FLOW MEASUREMENT	15/420689	31-Jan-2017	10478584	19-Nov-2019	31-Oct-2037	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY	
H-IK-00002		Australia	COMPENSATING FOR DISRUPTIONS IN BREATHING GAS FLOW MEASUREMENT	2017215178	31-Jan-2017				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY	
H-IK-00002		Canada	COMPENSATING FOR DISRUPTIONS IN BREATHING GAS FLOW MEASUREMENT	3012189	31-Jan-2017				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY	
H-IK-00002		China (People's Republic)	COMPENSATING FOR DISRUPTIONS IN BREATHING GAS FLOW MEASUREMENT	201780008467.2	31-Jan-2017				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY	
H-IK-00002		European Patent Convention	COMPENSATING FOR DISRUPTIONS IN BREATHING GAS FLOW MEASUREMENT	17748014.2	31-Jan-2017				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY	
H-IK-00002		Japan	COMPENSATING FOR DISRUPTIONS IN BREATHING GAS FLOW MEASUREMENT	2016-538855	31-Jan-2017				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY	
H-IK-00002		Korea, Republic of	COMPENSATING FOR DISRUPTIONS IN BREATHING GAS FLOW MEASUREMENT	10-2016-7024890	31-Jan-2017				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY	
H-IK-00002	C1	United States	COMPENSATING FOR DISRUPTIONS IN BREATHING GAS FLOW MEASUREMENT	16/566786	10-Oct-2019				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY	
H-IK-00003		United States	MRI COMPATIBLE THERAPEUTIC GAS INJECTOR MODULE	29/544067	30-Oct-2016	0778278	10-Jan-2017	10-Jan-2032	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY	
H-IK-00003	C1	United States	MRI COMPATIBLE THERAPEUTIC GAS INJECTOR MODULE	29/578294	20-Sep-2016	0797935	19-Sep-2017	30-Oct-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY	
H-IK-00003	C2	United States	MRI COMPATIBLE THERAPEUTIC GAS INJECTOR MODULE	29/614133	16-Aug-2017	0823472	17-Jul-2018	30-Oct-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY	

H-IK-00004		United States	MRI COMPATIBLE THERAPEUTIC GAS DELIVERY CART	29/544072	30-Oct-2015	D776279	10-Jan-2017	10-Jan-2032	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-00004	C1	United States	MRI COMPATIBLE THERAPEUTIC GAS DELIVERY CART	29/578295	20-Sep-2018	D807510	08-Jan-2018	30-Oct-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-00005		United States	APPARATUS AND METHOD FOR DETECTING LIQUID LEVEL IN A CLEAR OR PARTIALLY CLEAR CONTAINER	15/460334	16-Mar-2017	10543334	28-Jan-2020	31-Jan-2038	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-00005		Australia	APPARATUS AND METHOD FOR DETECTING LIQUID LEVEL IN A CLEAR OR PARTIALLY CLEAR CONTAINER	2017260618	18-Mar-2017				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-00005		Canada	APPARATUS AND METHOD FOR DETECTING LIQUID LEVEL IN A CLEAR OR PARTIALLY CLEAR CONTAINER	3022864	16-Mar-2017				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-00005		China (People's Republic)	APPARATUS AND METHOD FOR DETECTING LIQUID LEVEL IN A CLEAR OR PARTIALLY CLEAR CONTAINER	201780031255.6	16-Mar-2017				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-00005		European Patent Convention	APPARATUS AND METHOD FOR DETECTING LIQUID LEVEL IN A CLEAR OR PARTIALLY CLEAR CONTAINER	17713852.6	18-Mar-2017				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-00005		Japan	APPARATUS AND METHOD FOR DETECTING LIQUID LEVEL IN A CLEAR OR PARTIALLY CLEAR CONTAINER	2018-557827	16-Mar-2017				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-00005		Korea, Republic of	APPARATUS AND METHOD FOR DETECTING LIQUID LEVEL IN A CLEAR OR PARTIALLY CLEAR CONTAINER	10-2018-7034472	16-Mar-2017				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-00005		Mexico	APPARATUS AND METHOD FOR DETECTING LIQUID LEVEL IN A CLEAR OR PARTIALLY CLEAR CONTAINER	MX/8/2018/013220	16-Mar-2017				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-00005		New Zealand	APPARATUS AND METHOD FOR DETECTING LIQUID LEVEL IN A CLEAR OR PARTIALLY CLEAR CONTAINER	747898	16-Mar-2017				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-00005	C1	United States	APPARATUS AND METHOD FOR DETECTING LIQUID LEVEL IN A CLEAR OR PARTIALLY CLEAR CONTAINER	16/724786	23-Dec-2019				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-00005		United States	APPARATUS AND METHOD FOR FILTERING LIQUID PARTICLES FROM INSPIRATORY GAS FLOW OF A PATIENT BREATHING CIRCUIT AFFILIATED WITH A VENTILATOR	15/446110	01-Mar-2017	10744292	18-Aug-2020	23-Apr-2038	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-00006		Australia	APPARATUS AND METHOD FOR FILTERING LIQUID PARTICLES FROM INSPIRATORY GAS FLOW OF A PATIENT BREATHING CIRCUIT AFFILIATED WITH A VENTILATOR	2017240366	01-Mar-2017				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-00006		Canada	APPARATUS AND METHOD FOR FILTERING LIQUID PARTICLES FROM INSPIRATORY GAS FLOW OF A PATIENT BREATHING CIRCUIT AFFILIATED WITH A VENTILATOR	3017337	01-Mar-2017				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-00006	PE04904A	China (People's Republic)	APPARATUS AND METHOD FOR FILTERING LIQUID PARTICLES FROM INSPIRATORY GAS FLOW OF A PATIENT BREATHING CIRCUIT AFFILIATED WITH A VENTILATOR	201780018853.X	01-Mar-2017				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-00006		European Patent Convention	APPARATUS AND METHOD FOR FILTERING LIQUID PARTICLES FROM INSPIRATORY GAS FLOW OF A PATIENT BREATHING CIRCUIT AFFILIATED WITH A VENTILATOR	17778200.2	01-Mar-2017				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-00006		Korea, Republic of	APPARATUS AND METHOD FOR FILTERING LIQUID PARTICLES FROM INSPIRATORY GAS FLOW OF A PATIENT BREATHING CIRCUIT AFFILIATED WITH A VENTILATOR	10-2018-7026798	01-Mar-2017				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-00006	D1	United States	APPARATUS AND METHOD FOR FILTERING LIQUID PARTICLES FROM INSPIRATORY GAS FLOW OF A PATIENT BREATHING CIRCUIT AFFILIATED WITH A VENTILATOR	18/664321	01-May-2020				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-00007		United States	APPARATUS AND METHOD FOR HUMIDITY CONDITIONING SAMPLE GAS OF A PATIENT BREATHING CIRCUIT AFFILIATED WITH A VENTILATOR AND/OR NITRIC OXIDE	15/459030	15-Mar-2017	10465945	26-Nov-2019	02-Mar-2038	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-00007		Australia	APPARATUS AND METHOD FOR HUMIDITY CONDITIONING SAMPLE GAS OF A PATIENT BREATHING CIRCUIT AFFILIATED WITH A VENTILATOR AND/OR NITRIC OXIDE	2017280817	15-Mar-2017				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-00007		Canada	APPARATUS AND METHOD FOR HUMIDITY CONDITIONING SAMPLE GAS OF A PATIENT BREATHING CIRCUIT AFFILIATED WITH A VENTILATOR AND/OR NITRIC OXIDE	3021880	15-Mar-2017				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-00007		China (People's Republic)	APPARATUS AND METHOD FOR HUMIDITY CONDITIONING SAMPLE GAS OF A PATIENT BREATHING CIRCUIT AFFILIATED WITH A VENTILATOR AND/OR NITRIC OXIDE	201780025587.3	15-Mar-2017				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-00007		European Patent Convention	APPARATUS AND METHOD FOR HUMIDITY CONDITIONING SAMPLE GAS OF A PATIENT BREATHING CIRCUIT AFFILIATED WITH A VENTILATOR AND/OR NITRIC OXIDE	17714098.5	15-Mar-2017				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-00007		Japan	APPARATUS AND METHOD FOR HUMIDITY CONDITIONING SAMPLE GAS OF A PATIENT BREATHING CIRCUIT AFFILIATED WITH A VENTILATOR AND/OR NITRIC OXIDE	2018-563203	15-Mar-2017				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-00007		Korea, Republic of	APPARATUS AND METHOD FOR HUMIDITY CONDITIONING SAMPLE GAS OF A PATIENT BREATHING CIRCUIT AFFILIATED WITH A VENTILATOR AND/OR NITRIC OXIDE	10-2018-7029443	15-Mar-2017				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-00007		New Zealand	APPARATUS AND METHOD FOR HUMIDITY CONDITIONING SAMPLE GAS OF A PATIENT BREATHING CIRCUIT AFFILIATED WITH A VENTILATOR AND/OR NITRIC OXIDE	747121	15-Mar-2017				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-00007	D1	United States	APPARATUS AND METHOD FOR HUMIDITY CONDITIONING SAMPLE GAS OF A PATIENT BREATHING CIRCUIT AFFILIATED WITH A VENTILATOR AND/OR NITRIC OXIDE	18/665353	28-Oct-2019				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY

H-IK-00008		United States	METHODS TO IMPROVE ORGAN VIABILITY	16/112287	24-Aug-2018				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-00008		Patent Cooperation Treaty	METHODS TO IMPROVE ORGAN VIABILITY	US2018/048028	24-Aug-2018				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-00008		Australia	METHODS TO IMPROVE ORGAN VIABILITY	2018322317	24-Aug-2018				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-00008		Canada	METHODS TO IMPROVE ORGAN VIABILITY	3073399	24-Aug-2018				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-00008		China (People's Republic)	METHODS TO IMPROVE ORGAN VIABILITY	201890059383.9	24-Aug-2018				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-00008		European Patent Convention	METHODS TO IMPROVE ORGAN VIABILITY	1854833.1	24-Aug-2018				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-00008		Japan	METHODS TO IMPROVE ORGAN VIABILITY	2020-511359	24-Aug-2018				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-00008		Korea, Republic of	METHODS TO IMPROVE ORGAN VIABILITY	10-2020-7007478	24-Aug-2018				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-00008		Mexico	METHODS TO IMPROVE ORGAN VIABILITY	MX/u/2020/001853	24-Aug-2018				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-00008		New Zealand	METHODS TO IMPROVE ORGAN VIABILITY	751954	24-Aug-2018				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-00015		Patent Cooperation Treaty	GAS SENSOR MODULE	US2019/084278	03-Dec-2019				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-00023		United States	METHODS TO INCREASE FUNCTIONAL CAPACITY AND QUALITY OF LIFE IN BRONCHIETABIS PATIENTS WITH NONTUBERCULOUS MYCOBACTERIA	16/875000	15-May-2020				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-00024		United States	METHOD OF TREATING PATIENTS WITH HEPATORENAL SYNDROME TYPE 1 AND LOW MEAN ARTERIAL PRESSURE	17/063409	29-Oct-2020				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-00024		Patent Cooperation Treaty	METHOD OF TREATING PATIENTS WITH HEPATORENAL SYNDROME TYPE 1 AND LOW MEAN ARTERIAL PRESSURE	182020/050185	29-Oct-2020				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-20001	C1	United States	METHODS AND APPARATUS FOR THE ADMINISTRATION OF CO	12/502991	14-Jul-2009	7945301	17-May-2011	27-Jun-2023	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-20001		United States	METHODS AND APPARATUS FOR THE ADMINISTRATION OF CO	10/502270	05-Aug-2005	7574246	11-Aug-2009	05-Aug-2025	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-20002	C2	United States	METHOD AND APPARATUS FOR THE MANUFACTURE OF HIGH PURITY CARBON MONOXIDE	15/430877	13-Feb-2017	10486128	26-Nov-2019	09-Apr-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-20002	C1	United States	METHOD AND APPARATUS FOR THE MANUFACTURE OF HIGH PURITY CARBON MONOXIDE	14/193323	28-Feb-2014	8667225	14-Feb-2017	27-Aug-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-20002		United States	PROCESS FOR THE MANUFACTURE OF HIGH PURITY CARBON MONOXIDE	13/036539	02-Mar-2011	8703089	22-Apr-2014	14-Oct-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-20003		United States	CARBON MONOXIDE IMPROVES OUTCOMES IN TISSUE AND ORGAN TRANSPLANTS AND SUPPRESSES APOPTOSIS	10/177930	21-Jun-2002	7238489	03-Jul-2007	21-Jun-2022	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-20014		United States	DOSING REGIMENS AND METHODS OF TREATMENT USING CARBON MONOXIDE	13/108437	12-May-2011	8778413	15-Jul-2014	27-Oct-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30008	C3	United States	METHODS OF REDUCING THE RISK OF OCCURRENCE OF PULMONARY EDEMA IN CHILDREN IN NEED OF TREATMENT WITH INHALED NITRIC OXIDE	12/821020	22-Jun-2010	8262968	09-Oct-2012	30-Jun-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30008	C4	United States	METHODS OF REDUCING THE RISK OF OCCURRENCE OF PULMONARY EDEMA IN TERM OR NEAR-TERM NEONATES IN NEED OF TREATMENT WITH INHALED NITRIC OXIDE	12/821041	22-Jun-2010	8293284	23-Oct-2012	30-Jun-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30008	C5	United States	METHODS OF REDUCING THE RISK OF OCCURRENCE OF PULMONARY EDEMA ASSOCIATED WITH INHALATION OF NITRIC OXIDE GAS	13/651860	15-Oct-2012	8431163	30-Apr-2013	30-Jun-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30008	C8	United States	METHODS FOR TREATING PATIENTS WHO ARE CANDIDATES FOR INHALED NITRIC OXIDE TREATMENT	13/683417	21-Nov-2012	8795741	05-Aug-2014	30-Jun-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30008	D1	United States	METHODS OF DISTRIBUTING A PHARMACEUTICAL PRODUCT COMPRISING NITRIC OXIDE GAS FOR INHALATION	13/683236	21-Nov-2012	8849112	30-Sep-2014	30-Jun-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30008	D1	Australia	METHODS OF TREATING TERM AND NEAR-TERM NEONATES HAVING HYPOXIC RESPIRATORY FAILURE ASSOCIATED WITH CLINICAL OR ECHOCARDIOGRAPHIC	2010202422	10-Jun-2010	2010202422	03-Feb-2011	30-Jun-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30008	D2	Australia	METHODS OF TREATING TERM AND NEAR-TERM NEONATES HAVING HYPOXIC RESPIRATORY FAILURE ASSOCIATED WITH CLINICAL OR ECHOCARDIOGRAPHIC	2010206032	29-Jul-2010	2010206032	22-Mar-2012	30-Jun-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY

H-IK-30008	D3	Australia	METHODS OF TREATING TERM AND NEAR-TERM NEONATES HAVING HYPOXIC RESPIRATORY FAILURE ASSOCIATED WITH CLINICAL OR ECHOCARDIOGRAPHIC	2012201382	08-Mar-2012	2012201382	08-Sep-2016	30-Jun-2020	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30009	D4	Australia	METHODS OF TREATING TERM AND NEAR-TERM NEONATES HAVING HYPOXIC RESPIRATORY FAILURE ASSOCIATED WITH CLINICAL OR ECHOCARDIOGRAPHIC	2015202617	02-Jul-2009	2015202617	19-Jan-2017	30-Jun-2020	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30008	D5	Australia	METHODS OF TREATING TERM AND NEAR-TERM NEONATES HAVING HYPOXIC RESPIRATORY FAILURE ASSOCIATED WITH CLINICAL OR ECHOCARDIOGRAPHIC	2015202618	02-Jul-2009	2015202618	19-Jan-2017	30-Jun-2020	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30008	D6	Australia	METHODS OF TREATING TERM AND NEAR-TERM NEONATES HAVING HYPOXIC RESPIRATORY FAILURE ASSOCIATED WITH CLINICAL OR ECHOCARDIOGRAPHIC	2015100783	02-Jul-2009	2015100783	25-Jun-2015	30-Jun-2020	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30008	D7	Australia	METHODS OF TREATING TERM AND NEAR-TERM NEONATES HAVING HYPOXIC RESPIRATORY FAILURE ASSOCIATED WITH CLINICAL OR ECHOCARDIOGRAPHIC	2015100638	02-Jul-2009	2015100638	28-May-2015	30-Jun-2020	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30008	D8	Australia	METHODS OF TREATING TERM AND NEAR-TERM NEONATES HAVING HYPOXIC RESPIRATORY FAILURE ASSOCIATED WITH CLINICAL OR ECHOCARDIOGRAPHIC	2016259420	02-Jul-2009	2016259420	17-Aug-2017	30-Jun-2020	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30008	D9	Australia	METHODS OF TREATING TERM AND NEAR-TERM NEONATES HAVING HYPOXIC RESPIRATORY FAILURE ASSOCIATED WITH CLINICAL OR ECHOCARDIOGRAPHIC	2017201628	02-Jul-2009	2017201628	19-Jul-2018	30-Jun-2020	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30008	D10	Australia	METHODS OF TREATING TERM AND NEAR-TERM NEONATES HAVING HYPOXIC RESPIRATORY FAILURE ASSOCIATED WITH CLINICAL OR ECHOCARDIOGRAPHIC	2017201630	02-Jul-2009	2017201630	19-Jul-2018	30-Jun-2020	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30008	D11	Australia	METHODS OF TREATING PATIENTS HAVING HYPOXIC RESPIRATORY FAILURE ASSOCIATED WITH CLINICAL OR ECHOCARDIOGRAPHIC EVIDENCE OF	2017202301	02-Jul-2009	2017202301	09-Aug-2018	30-Jun-2020	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30008		Australia	METHODS OF TREATING TERM AND NEAR-TERM NEONATES HAVING HYPOXIC RESPIRATORY FAILURE ASSOCIATED WITH CLINICAL OR ECHOCARDIOGRAPHIC	2009202685	02-Jul-2009	2009202685	02-Dec-2010	02-Jul-2020	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30008		Canada	METHODS OF TREATING TERM AND NEAR-TERM NEONATES HAVING HYPOXIC RESPIRATORY FAILURE ASSOCIATED WITH CLINICAL OR ECHOCARDIOGRAPHIC	2871029	02-Jul-2009			02-Jul-2020	Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30008		Mexico	A METHOD TO DETERMINE A PATIENT POPULATION NOT SUITED TO RECEIVING NITRIC OXIDE BY INHALATION	MX/a/10/006055	02-Jun-2010	329645	23-Apr-2016	02-Jun-2030	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30008	D3	United States	METHODS OF ADMINISTERING INHALED NITRIC OXIDE GAS	18/378361	08-Apr-2019				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30008	DIV13	Australia	Methods of Treating Term and Near-Term Neonates Having Hypoxic Respiratory Failure Associated with Clinical or Echocardiographic Evidence of Pulmonary Hypertension	2020201590	16-Jun-2010				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30009		Belgium	COMPOSITIONS, METHODS AND ARTICLES CONCERNING PHARMACEUTICAL NITRIC OXIDE AND CONTROLLED PATIENT DELIVERY SYSTEMS THEREOF	11778928.1	09-Sep-2011	2613839	12-Dec-2018	09-Sep-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30009		Switzerland	COMPOSITIONS, METHODS AND ARTICLES CONCERNING PHARMACEUTICAL NITRIC OXIDE AND CONTROLLED PATIENT DELIVERY SYSTEMS THEREOF	11778928.1	09-Sep-2011	2613839	12-Dec-2018	09-Sep-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30009		Germany	COMPOSITIONS, METHODS AND ARTICLES CONCERNING PHARMACEUTICAL NITRIC OXIDE AND CONTROLLED PATIENT DELIVERY SYSTEMS THEREOF	11778928.1	09-Sep-2011	2613839	12-Dec-2018	09-Sep-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30009		Spain	COMPOSITIONS, METHODS AND ARTICLES CONCERNING PHARMACEUTICAL NITRIC OXIDE AND CONTROLLED PATIENT DELIVERY SYSTEMS THEREOF	11778928.1	09-Sep-2011	2613839	12-Dec-2018	09-Sep-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30009		France	COMPOSITIONS, METHODS AND ARTICLES CONCERNING PHARMACEUTICAL NITRIC OXIDE AND CONTROLLED PATIENT DELIVERY SYSTEMS THEREOF	11778928.1	09-Sep-2011	2613839	12-Dec-2018	09-Sep-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30009		United Kingdom	COMPOSITIONS, METHODS AND ARTICLES CONCERNING PHARMACEUTICAL NITRIC OXIDE AND CONTROLLED PATIENT DELIVERY SYSTEMS THEREOF	11778928.1	09-Sep-2011	2613839	12-Dec-2018	09-Sep-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30009		Ireland	COMPOSITIONS, METHODS AND ARTICLES CONCERNING PHARMACEUTICAL NITRIC OXIDE AND CONTROLLED PATIENT DELIVERY SYSTEMS THEREOF	11778928.1	09-Sep-2011	2613839	12-Dec-2018	09-Sep-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30009		Italy	COMPOSITIONS, METHODS AND ARTICLES CONCERNING PHARMACEUTICAL NITRIC OXIDE AND CONTROLLED PATIENT DELIVERY SYSTEMS THEREOF	11778928.1	09-Sep-2011	2613839	12-Dec-2018	09-Sep-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30009		Netherlands	COMPOSITIONS, METHODS AND ARTICLES CONCERNING PHARMACEUTICAL NITRIC OXIDE AND CONTROLLED PATIENT DELIVERY SYSTEMS THEREOF	11778928.1	09-Sep-2011	2613839	12-Dec-2018	09-Sep-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30009	D1	European Patent Convention	COMPOSITIONS, METHODS AND ARTICLES CONCERNING PHARMACEUTICAL NITRIC OXIDE AND CONTROLLED PATIENT DELIVERY SYSTEMS THEREOF	18211733.3	09-Sep-2011				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30015		United States	METHOD AND APPARATUS FOR GENERATING NITRIC OXIDE FOR MEDICAL USE	11/355670	16-Feb-2006	8790715	29-Jul-2014	16-Feb-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30015	C1	United States	METHOD AND APPARATUS FOR GENERATING NITRIC OXIDE FOR MEDICAL USE	14/307584	16-Jun-2014	9278111	08-Mar-2016	16-Feb-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30015	C2	United States	METHOD AND APPARATUS FOR GENERATING NITRIC OXIDE FOR MEDICAL USE	15/008048	27-Jan-2016	10537697	21-Jan-2020	16-Feb-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30015		Belgium	METHOD AND APPARATUS FOR GENERATING NITRIC OXIDE FOR MEDICAL USE	07870851.2	26-Jan-2007	1984062	27-Dec-2017	25-Jan-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY

H-IK-30015		Switzerland	METHOD AND APPARATUS FOR GENERATING NITRIC OXIDE FOR MEDICAL USE	07870851.2	25-Jan-2007	1984052	27-Dec-2017	25-Jan-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30015		Germany	METHOD AND APPARATUS FOR GENERATING NITRIC OXIDE FOR MEDICAL USE	07870851.2	25-Jan-2007	1984052	27-Dec-2017	25-Jan-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30015		Spain	METHOD AND APPARATUS FOR GENERATING NITRIC OXIDE FOR MEDICAL USE	07870851.2	25-Jan-2007	1884062	27-Dec-2017	25-Jan-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30015		France	METHOD AND APPARATUS FOR GENERATING NITRIC OXIDE FOR MEDICAL USE	07870851.2	25-Jan-2007	1984052	27-Dec-2017	25-Jan-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30015		United Kingdom	METHOD AND APPARATUS FOR GENERATING NITRIC OXIDE FOR MEDICAL USE	07870851.2	25-Jan-2007	1984052	27-Dec-2017	25-Jan-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30015		Ireland	METHOD AND APPARATUS FOR GENERATING NITRIC OXIDE FOR MEDICAL USE	07870851.2	25-Jan-2007	1884052	27-Dec-2017	25-Jan-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30015		Italy	METHOD AND APPARATUS FOR GENERATING NITRIC OXIDE FOR MEDICAL USE	07870851.2	25-Jan-2007	60201800008399	27-Dec-2017	25-Jan-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30015		Netherlands	METHOD AND APPARATUS FOR GENERATING NITRIC OXIDE FOR MEDICAL USE	07870851.2	25-Jan-2007	1984052	27-Dec-2017	25-Jan-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30015		Portugal	METHOD AND APPARATUS FOR GENERATING NITRIC OXIDE FOR MEDICAL USE	07870851.2	25-Jan-2007	1984052	27-Dec-2017	25-Jan-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30015	D1	Belgium	METHOD AND APPARATUS FOR GENERATING NITRIC OXIDE FOR MEDICAL USE	17194639.5	25-Jan-2007	3311870	24-Apr-2019	25-Jan-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30015	D1	Switzerland	METHOD AND APPARATUS FOR GENERATING NITRIC OXIDE FOR MEDICAL USE	17194639.5	25-Jan-2007	3311870	24-Apr-2019	25-Jan-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30015	D1	Germany	METHOD AND APPARATUS FOR GENERATING NITRIC OXIDE FOR MEDICAL USE	17194639.5	25-Jan-2007	3311870	24-Apr-2019	25-Jan-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30015	D1	Spain	METHOD AND APPARATUS FOR GENERATING NITRIC OXIDE FOR MEDICAL USE	17194639.5	25-Jan-2007	3311870	24-Apr-2019	25-Jan-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30015	D1	France	METHOD AND APPARATUS FOR GENERATING NITRIC OXIDE FOR MEDICAL USE	17194639.5	25-Jan-2007	3311870	24-Apr-2019	25-Jan-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30015	D1	United Kingdom	METHOD AND APPARATUS FOR GENERATING NITRIC OXIDE FOR MEDICAL USE	17194639.5	25-Jan-2007	3311870	24-Apr-2019	25-Jan-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30015	D1	Ireland	METHOD AND APPARATUS FOR GENERATING NITRIC OXIDE FOR MEDICAL USE	17194639.5	25-Jan-2007	3311870	24-Apr-2019	25-Jan-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30015	D1	Italy	METHOD AND APPARATUS FOR GENERATING NITRIC OXIDE FOR MEDICAL USE	17194639.5	25-Jan-2007	3311870	24-Apr-2019	25-Jan-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30015	D1	Liechtenstein	METHOD AND APPARATUS FOR GENERATING NITRIC OXIDE FOR MEDICAL USE	17194639.5	25-Jan-2007	3311870	24-Apr-2019	25-Jan-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30015	D1	Netherlands	METHOD AND APPARATUS FOR GENERATING NITRIC OXIDE FOR MEDICAL USE	17194639.5	25-Jan-2007	3311870	24-Apr-2019	25-Jan-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30015	D1	Portugal	METHOD AND APPARATUS FOR GENERATING NITRIC OXIDE FOR MEDICAL USE	17194639.5	25-Jan-2007	3311870	24-Apr-2019	25-Jan-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30019		Australia	VALVE WITH SMART HANDLE INCLUDING SENSORS AND MEMORY	2002232458	16-Nov-2001	2002232458	11-Jan-2007	15-Nov-2021	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30019		Japan	VALVE WITH SMART HANDLE INCLUDING SENSORS AND MEMORY	2002-542799	15-Nov-2001	4384849	02-Oct-2008	16-Nov-2021	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30019		Canada	VALVE WITH SMART HANDLE INCLUDING SENSORS AND MEMORY	2428203	15-Nov-2001	2429203	28-Jan-2008	15-Nov-2021	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30019		Mexico	VALVE WITH SMART HANDLE INCLUDING SENSORS AND MEMORY	PA/A/03/004329	16-May-2003	244650	30-Mar-2007	15-Nov-2021	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30019		Austria	VALVE WITH SMART HANDLE INCLUDING SENSORS AND MEMORY	01991983.6	15-Nov-2001	1356228	20-Aug-2008	15-Nov-2021	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30019		Switzerland	VALVE WITH SMART HANDLE INCLUDING SENSORS AND MEMORY	01991983.6	15-Nov-2001	1356228	20-Aug-2008	15-Nov-2021	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30019		Spain	VALVE WITH SMART HANDLE INCLUDING SENSORS AND MEMORY	01991983.6	15-Nov-2001	1356228	20-Aug-2008	15-Nov-2021	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30019		Portugal	VALVE WITH SMART HANDLE INCLUDING SENSORS AND MEMORY	01991983.6	15-Nov-2001	1356228	20-Aug-2008	16-Nov-2021	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY

H-IK-30019		United States	VALVE WITH SMART HANDLE INCLUDING SENSORS AND MEMORY	10/416870	15-May-2003	7114510	03-Oct-2006	10-Jul-2022	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30019		Hong Kong	VALVE WITH SMART HANDLE INCLUDING SENSORS AND MEMORY	04103053.4	29-Apr-2004	1062038	21-Aug-2009	29-Apr-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30026		Brazil	GAS DELIVERY DEVICE AND SYSTEM	BR112013017486-6	06-Jan-2011			06-Jan-2031	Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30026		Australia	GAS DELIVERY DEVICE AND SYSTEM	2011328891	06-Jan-2011	2011328891	05-Mar-2016	06-Jan-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30026		United States	GAS DELIVERY DEVICE AND SYSTEM	13/509873	11-Jun-2012	8673209	05-Nov-2013	06-Jan-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30026		Hong Kong	GAS DELIVERY DEVICE AND SYSTEM	14109739.4	06-Jan-2011	1180650	18-May-2018	06-Jan-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30026		Canada	GAS DELIVERY DEVICE AND SYSTEM	2778766	06-Jan-2011	2778766	20-Feb-2013	06-Jan-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30026		China (People's Republic)	GAS DELIVERY DEVICE AND SYSTEM	201180084464.3	06-Jan-2011	103458951	01-Jun-2016	06-Jan-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30026		Japan	GAS DELIVERY DEVICE AND SYSTEM	2013-548385	06-Jan-2011	5923523	22-Apr-2016	06-Jan-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30026		Mexico	GAS DELIVERY DEVICE AND SYSTEM	MX/a/2013/007931	06-Jan-2011	321853	11-Jul-2014	06-Jan-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30026		New Zealand	GAS DELIVERY DEVICE AND SYSTEM	611564	06-Jan-2011	611564	03-Nov-2015	06-Jan-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30026	T1	United States	NITRIC OXIDE DELIVERY DEVICE	13/677483	16-Nov-2012	8573210	05-Nov-2013	06-Jan-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30026	C1	United States	GAS DELIVERY DEVICE AND SYSTEM	13/493493	11-Jun-2012	8291804	23-Oct-2012	06-Jan-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30026	C2	United States	GAS DELIVERY DEVICE AND SYSTEM	14/065862	29-Oct-2013	9266911	23-Feb-2016	06-Jan-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30026	C3	United States	GAS DELIVERY DEVICE AND SYSTEM	14/066975	29-Oct-2013	8776795	15-Jul-2014	06-Jan-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30026	C4	United States	NITRIC OXIDE DELIVERY DEVICE	14/065951	29-Oct-2013	8778794	15-Jul-2014	06-Jan-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30026	C6	United States	NITRIC OXIDE DELIVERY DEVICE	14/328160	10-Jul-2014	9408993	09-Aug-2016	06-Jan-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30026	C7	United States	GAS DELIVERY DEVICE AND SYSTEM	14/620742	24-Feb-2016	9295802	29-Mar-2016	06-Jan-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30026	D1	Mexico	GAS DELIVERY DEVICE AND SYSTEM	MX/a/2014/008296	06-Jan-2011	328838	24-Mar-2015	06-Jan-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30026	D1	Australia	GAS DELIVERY DEVICE AND SYSTEM	2016200792	06-Jan-2011	2015200792	13-Jul-2017	06-Jan-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30026	D1	New Zealand	GAS DELIVERY DEVICE AND SYSTEM	707513	06-Jan-2011	707513	31-Jan-2017	06-Jan-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30026	D2	Mexico	GAS DELIVERY DEVICE AND SYSTEM	MX/a/2015/003611	06-Jan-2011	332884	01-Sep-2015	06-Jan-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30026	D3	Mexico	GAS DELIVERY DEVICE AND SYSTEM	MX/a/2016/003612	06-Jan-2011	346401	18-Mar-2017	06-Jan-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30026	C8	United States	GAS DELIVERY DEVICE AND SYSTEM	15/001020	19-Jan-2016	10272226	30-Apr-2019	06-Jan-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30026	D1	Japan	GAS DELIVERY DEVICE AND SYSTEM	2016-015407	06-Jan-2011	8211635	22-Sep-2017	06-Jan-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30026	D1	China (People's Republic)	GAS DELIVERY DEVICE AND SYSTEM	201610300700.1	06-Jan-2011	106056863	28-Jun-2019	06-Jan-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30026	D2	New Zealand	GAS DELIVERY DEVICE AND SYSTEM	724347	06-Jan-2011	724347	26-Jun-2018	06-Jan-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30026	D2	Australia	GAS DELIVERY DEVICE AND SYSTEM	2017204422	06-Jan-2011	2017204422	12-Dec-2018	06-Jan-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY

H-IK-30026		Belgium	GAS DELIVERY DEVICE AND SYSTEM	11701890.3	06-Jan-2011	2661300	04-Oct-2017	06-Jan-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30026		Switzerland	GAS DELIVERY DEVICE AND SYSTEM	11701890.3	06-Jan-2011	2661300	04-Oct-2017	06-Jan-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30026		Germany	GAS DELIVERY DEVICE AND SYSTEM	11701890.3	06-Jan-2011	2661300	04-Oct-2017	06-Jan-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30026		Denmark	GAS DELIVERY DEVICE AND SYSTEM	11701890.3	06-Jan-2011	2661300	04-Oct-2017	06-Jan-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30026		Spain	GAS DELIVERY DEVICE AND SYSTEM	11701890.3	06-Jan-2011	2661300	04-Oct-2017	06-Jan-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30026		Finland	GAS DELIVERY DEVICE AND SYSTEM	11701890.3	06-Jan-2011	2661300	04-Oct-2017	06-Jan-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30026		France	GAS DELIVERY DEVICE AND SYSTEM	11701890.3	06-Jan-2011	2661300	04-Oct-2017	06-Jan-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30026		United Kingdom	GAS DELIVERY DEVICE AND SYSTEM	11701890.3	06-Jan-2011	2661300	04-Oct-2017	06-Jan-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30026		Ireland	GAS DELIVERY DEVICE AND SYSTEM	11701890.3	06-Jan-2011	2661300	04-Oct-2017	06-Jan-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30026		Iceland	GAS DELIVERY DEVICE AND SYSTEM	11701890.3	06-Jan-2011	2661300	04-Oct-2017	06-Jan-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30026		Italy	GAS DELIVERY DEVICE AND SYSTEM	11701890.3	06-Jan-2011	2661300	04-Oct-2017	06-Jan-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30026		Netherlands	GAS DELIVERY DEVICE AND SYSTEM	11701890.3	06-Jan-2011	2661300	04-Oct-2017	06-Jan-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30026		Norway	GAS DELIVERY DEVICE AND SYSTEM	11701890.3	06-Jan-2011	2661300	04-Oct-2017	06-Jan-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30026		Portugal	GAS DELIVERY DEVICE AND SYSTEM	11701890.3	06-Jan-2011	2661300	04-Oct-2017	06-Jan-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30026		Sweden	GAS DELIVERY DEVICE AND SYSTEM	11701890.3	06-Jan-2011	2661300	04-Oct-2017	06-Jan-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30026	D1	Canada	GAS DELIVERY DEVICE	2981860	06-Jan-2011	2981860	24-Mar-2020	06-Jan-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30026	D3	New Zealand	GAS DELIVERY DEVICE AND SYSTEM	739614	06-Jan-2011	739614	03-Sep-2019	06-Jan-2031	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30026	C9	United States	NITRIC OXIDE DELIVERY DEVICE	15/204178	07-Jul-2016	10661045	26-May-2020	25-Sep-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30026	T1	Australia	NITRIC OXIDE DELIVERY DEVICE	2013257484	14-Nov-2013	2013257484	01-Feb-2018	14-Nov-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30026	D3	Australia	NITRIC OXIDE DELIVERY DEVICE	2017276262	14-Nov-2013	2017276262	18-Jun-2020	14-Nov-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30026	D4	Mexico	GAS DELIVERY DEVICE AND SYSTEM	MX/a/2016/017014	06-Jan-2011				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30026	D2	Japan	GAS DELIVERY DEVICE AND SYSTEM	2017-176368	06-Jan-2011				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30029		European Patent Convention	APPARATUS AND METHOD FOR MONITORING NITRIC OXIDE DELIVERY	12791615.3	07-Nov-2012			07-Nov-2032	Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30029		Canada	APPARATUS AND METHOD FOR MONITORING NITRIC OXIDE DELIVERY	2854778	07-Nov-2012	2854776	18-Aug-2020	07-Nov-2032	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30029		Mexico	APPARATUS AND METHOD FOR MONITORING NITRIC OXIDE DELIVERY	MX/a/2014/006624	07-Nov-2012	362813	06-Feb-2019	07-Nov-2032	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30029		Australia	APPARATUS AND METHOD FOR MONITORING NITRIC OXIDE DELIVERY	2012335937	07-Nov-2012	2012335937	07-Sep-2017	07-Nov-2032	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30029	T1	United States	APPARATUS AND METHOD FOR MONITORING NITRIC OXIDE DELIVERY	13/800267	13-Mar-2013	10426913	01-Oct-2019	08-Dec-2032	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30029	D1	United States	APPARATUS AND METHOD FOR MONITORING NITRIC OXIDE DELIVERY	16/683290	22-Aug-2017	10773046	15-Sep-2020	18-Aug-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY

H-IK-30029	T.1	Australia	APPARATUS AND METHOD FOR MONITORING NITRIC OXIDE DELIVERY	2014244334	13-Mar-2014	2014244334	08-Nov-2018	13-Mar-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30029	T.1	Mexico	APPARATUS AND METHOD FOR MONITORING NITRIC OXIDE DELIVERY	MX/a/2015/012179	13-Mar-2014	363891	29-Mar-2019	13-Mar-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30029	T.1	Belgium	APPARATUS AND METHOD FOR MONITORING NITRIC OXIDE DELIVERY	14720777.3	13-Mar-2014	2968824	29-Nov-2017	13-Mar-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30029	T.1	Switzerland	APPARATUS AND METHOD FOR MONITORING NITRIC OXIDE DELIVERY	14720777.3	13-Mar-2014	2968824	29-Nov-2017	13-Mar-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30029	T.1	Czech Republic	APPARATUS AND METHOD FOR MONITORING NITRIC OXIDE DELIVERY	14720777.3	13-Mar-2014	2968824	29-Nov-2017	13-Mar-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30029	T.1	Germany	APPARATUS AND METHOD FOR MONITORING NITRIC OXIDE DELIVERY	14720777.3	13-Mar-2014	602014017882.0	29-Nov-2017	13-Mar-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30029	T.1	Denmark	APPARATUS AND METHOD FOR MONITORING NITRIC OXIDE DELIVERY	14720777.3	13-Mar-2014	2968824	29-Nov-2017	13-Mar-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30029	T.1	Spain	APPARATUS AND METHOD FOR MONITORING NITRIC OXIDE DELIVERY	14720777.3	13-Mar-2014	2968824	29-Nov-2017	13-Mar-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30029	T.1	Finland	APPARATUS AND METHOD FOR MONITORING NITRIC OXIDE DELIVERY	14720777.3	13-Mar-2014	2968824	29-Nov-2017	13-Mar-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30029	T.1	France	APPARATUS AND METHOD FOR MONITORING NITRIC OXIDE DELIVERY	14720777.3	13-Mar-2014	2968824	29-Nov-2017	13-Mar-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30029	T.1	United Kingdom	APPARATUS AND METHOD FOR MONITORING NITRIC OXIDE DELIVERY	14720777.3	13-Mar-2014	2968824	29-Nov-2017	13-Mar-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30029	T.1	Greece	APPARATUS AND METHOD FOR MONITORING NITRIC OXIDE DELIVERY	14720777.3	13-Mar-2014	2968824	29-Nov-2017	13-Mar-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30029	T.1	Ireland	APPARATUS AND METHOD FOR MONITORING NITRIC OXIDE DELIVERY	14720777.3	13-Mar-2014	2968824	29-Nov-2017	13-Mar-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30029	T.1	Italy	APPARATUS AND METHOD FOR MONITORING NITRIC OXIDE DELIVERY	14720777.3	13-Mar-2014	2968824	29-Nov-2017	13-Mar-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30029	T.1	Netherlands	APPARATUS AND METHOD FOR MONITORING NITRIC OXIDE DELIVERY	14720777.3	13-Mar-2014	2968824	29-Nov-2017	13-Mar-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30029	T.1	Norway	APPARATUS AND METHOD FOR MONITORING NITRIC OXIDE DELIVERY	14720777.3	13-Mar-2014	2968824	29-Nov-2017	13-Mar-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30029	T.1	Poland	APPARATUS AND METHOD FOR MONITORING NITRIC OXIDE DELIVERY	14720777.3	13-Mar-2014	2968824	29-Nov-2017	13-Mar-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30029	T.1	Portugal	APPARATUS AND METHOD FOR MONITORING NITRIC OXIDE DELIVERY	14720777.3	13-Mar-2014	2968824	29-Nov-2017	13-Mar-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30029	T.1	Sweden	APPARATUS AND METHOD FOR MONITORING NITRIC OXIDE DELIVERY	14720777.3	13-Mar-2014	2968824	29-Nov-2017	13-Mar-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30029	D1	Australia	APPARATUS AND METHOD FOR MONITORING NITRIC OXIDE DELIVERY	2018204804	13-Mar-2014	2018204804	30-Apr-2020	13-Mar-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30029		Hong Kong	APPARATUS AND METHOD FOR MONITORING NITRIC OXIDE DELIVERY	14112029.4	07-Nov-2012			28-Nov-2034	Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30029		United States	APPARATUS AND METHOD FOR MONITORING NITRIC OXIDE DELIVERY	13/871057	07-Nov-2012	9770570	26-Sep-2017	03-May-2036	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30029	T.1	Canada	APPARATUS AND METHOD FOR MONITORING NITRIC OXIDE DELIVERY	2905644	13-Mar-2014				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30029	D1	Japan	APPARATUS AND METHOD FOR MONITORING NITRIC OXIDE DELIVERY	2017-206969	07-Nov-2012				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30029	D1	European Patent Convention	APPARATUS AND METHOD FOR MONITORING NITRIC OXIDE DELIVERY	17199979.0	13-Mar-2014				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30029	D2	Japan	APPARATUS AND METHOD FOR MONITORING NITRIC OXIDE DELIVERY	2016-140017	13-Mar-2014				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30029	D1	Mexico	APPARATUS AND METHOD FOR MONITORING NITRIC OXIDE DELIVERY	MX/a/2018/016398	07-Dec-2012				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30029	T1D1	Mexico	APPARATUS AND METHOD FOR MONITORING NITRIC OXIDE DELIVERY	MX/a/2018/003564	13-Mar-2014				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY

H-IK-30029	C1	United States	APPARATUS AND METHOD FOR MONITORING NITRIC OXIDE DELIVERY	16/537955	12-Aug-2018				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30029	D3	Japan	Apparatus and Method for Monitoring Nitric Oxide Delivery	2019-224512	07-Nov-2012				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30029	D2	Australia	APPARATUS AND METHOD FOR MONITORING NITRIC OXIDE DELIVERY	2020202541	13-Mar-2014				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30034		Mexico	METHODS OF ADMINISTERING NITRIC OXIDE TO ARTERIAL OR ARTERIALIZED BLOOD	MX/a/2014/014502	30-May-2013	363507	28-Mar-2019	30-May-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30034		Australia	METHODS OF ADMINISTERING NITRIC OXIDE TO ARTERIAL OR ARTERIALIZED BLOOD	2013267418	30-May-2013	2013267418	20-Sep-2018	30-May-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30034		Canada	METHODS OF ADMINISTERING NITRIC OXIDE TO ARTERIAL OR ARTERIALIZED BLOOD	2874842	30-May-2013			30-May-2033	Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30034		European Patent Convention	METHODS OF ADMINISTERING NITRIC OXIDE TO ARTERIAL OR ARTERIALIZED BLOOD	13729170.4	30-May-2013			30-May-2033	Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30034		Japan	METHODS OF ADMINISTERING NITRIC OXIDE TO ARTERIAL OR ARTERIALIZED BLOOD	2015-515168	30-May-2013	5215314	29-Sep-2017	30-May-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30034	D1	Australia	METHODS OF ADMINISTERING NITRIC OXIDE TO ARTERIAL OR ARTERIALIZED BLOOD	2018203332	30-May-2013	2018203332	02-Jan-2020	30-May-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30034		United States	METHODS OF ADMINISTERING NITRIC OXIDE TO ARTERIAL OR ARTERIALIZED BLOOD	14/402786	21-Nov-2014	10052428	21-Aug-2018	23-Jun-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30034	D1	Mexico	METHODS OF ADMINISTERING NITRIC OXIDE TO ARTERIAL OR ARTERIALIZED BLOOD	MX/a/2019/003444	30-May-2013				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30037		United States	GAS DELIVERY DEVICE AND SYSTEM FOR USE IN MAGNETIC RESONANCE IMAGING	14/857548	13-Mar-2015	10188922	29-Jan-2019	28-Apr-2037	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30037	D1	United States	GAS DELIVERY DEVICE AND SYSTEM FOR USE IN MAGNETIC RESONANCE IMAGING	16/217996	12-Dec-2018				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30038		Japan	DEVICES AND METHODS FOR MONITORING OXYGENATION DURING TREATMENT WITH DELIVERY OF NITRIC OXIDE	2018-502139	13-Mar-2014	8654568	03-Feb-2020	13-Mar-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30038		Belgium	DEVICES AND METHODS FOR MONITORING OXYGENATION DURING TREATMENT WITH DELIVERY OF NITRIC OXIDE	14722023.0	13-Mar-2014	2967434	11-Dec-2019	13-Mar-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30038		Switzerland	DEVICES AND METHODS FOR MONITORING OXYGENATION DURING TREATMENT WITH DELIVERY OF NITRIC OXIDE	14722023.0	13-Mar-2014	2967434	11-Dec-2019	13-Mar-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30038		Germany	DEVICES AND METHODS FOR MONITORING OXYGENATION DURING TREATMENT WITH DELIVERY OF NITRIC OXIDE	14722023.0	13-Mar-2014	602014059199.4	11-Dec-2019	13-Mar-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30038		Spain	DEVICES AND METHODS FOR MONITORING OXYGENATION DURING TREATMENT WITH DELIVERY OF NITRIC OXIDE	14722023.0	13-Mar-2014	2967434	11-Dec-2019	13-Mar-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30038		France	DEVICES AND METHODS FOR MONITORING OXYGENATION DURING TREATMENT WITH DELIVERY OF NITRIC OXIDE	14722023.0	13-Mar-2014	2967434	11-Dec-2019	13-Mar-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30038		United Kingdom	DEVICES AND METHODS FOR MONITORING OXYGENATION DURING TREATMENT WITH DELIVERY OF NITRIC OXIDE	14722023.0	13-Mar-2014	2967434	11-Dec-2019	13-Mar-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30038		Ireland	DEVICES AND METHODS FOR MONITORING OXYGENATION DURING TREATMENT WITH DELIVERY OF NITRIC OXIDE	14722023.0	13-Mar-2014	2967434	11-Dec-2019	13-Mar-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30038		Italy	DEVICES AND METHODS FOR MONITORING OXYGENATION DURING TREATMENT WITH DELIVERY OF NITRIC OXIDE	14722023.0	13-Mar-2014	50202000022903	11-Dec-2019	13-Mar-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30038		Netherlands	DEVICES AND METHODS FOR MONITORING OXYGENATION DURING TREATMENT WITH DELIVERY OF NITRIC OXIDE	14722023.0	13-Mar-2014	2967434	11-Dec-2019	13-Mar-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30038		Portugal	DEVICES AND METHODS FOR MONITORING OXYGENATION DURING TREATMENT WITH DELIVERY OF NITRIC OXIDE	14722023.0	13-Mar-2014	2967434	11-Dec-2019	13-Mar-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30038		Sweden	DEVICES AND METHODS FOR MONITORING OXYGENATION DURING TREATMENT WITH DELIVERY OF NITRIC OXIDE	14722023.0	13-Mar-2014	2967434	11-Dec-2019	13-Mar-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30038		Canada	DEVICES AND METHODS FOR MONITORING OXYGENATION DURING TREATMENT WITH DELIVERY OF NITRIC OXIDE	2905439	13-Mar-2014				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30038		Mexico	DEVICES AND METHODS FOR MONITORING OXYGENATION DURING TREATMENT WITH DELIVERY OF NITRIC OXIDE	MX/a/2015/012177	13-Mar-2014				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30038	D1	Australia	DEVICE AND METHODS FOR MONITORING OXYGENATION DURING TREATMENT WITH DELIVERY OF NITRIC OXIDE	2018253581	13-Mar-2014				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY

H-IK-30038	C1	United States	DEVICE AND METHODS FOR MONITORING OXYGENATION DURING TREATMENT WITH DELIVERY OF NITRIC OXIDE	18/055263	28-Mar-2019					Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30038	D1	European Patent Convention	DEVICES AND METHODS FOR MONITORING OXYGENATION DURING TREATMENT WITH DELIVERY OF NITRIC OXIDE	18206524.1	13-Mar-2014					Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30038	D1	Mexico	DEVICES AND METHODS FOR MONITORING OXYGENATION DURING TREATMENT WITH DELIVERY OF NITRIC OXIDE	MX/a/2020/009303	13-Mar-2014					Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30038	D2	Japan	Device and Methods for Monitoring Oxygenation During Treatment with Delivery of Nitric Oxide	2020-102068	13-Mar-2014					Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30039		Japan	THERAPEUTIC GAS DELIVERY DEVICE WITH PULSED AND CONTINUOUS FLOW CONTROL	2018-502802	14-Mar-2014	0460908	10-Jan-2019	14-Mar-2034		Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30039		Australia	THERAPEUTIC GAS DELIVERY DEVICE WITH PULSED AND CONTINUOUS FLOW CONTROL	2014227790	14-Mar-2014	2014227790	27-Jun-2019	14-Mar-2034		Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30039		Mexico	THERAPEUTIC GAS DELIVERY DEVICE WITH PULSED AND CONTINUOUS FLOW CONTROL	MX/a/2015/012172	14-Mar-2014	364174	16-Apr-2019	14-Mar-2034		Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30039		Hong Kong	THERAPEUTIC GAS DELIVERY DEVICE WITH PULSED AND CONTINUOUS FLOW CONTROL	18108495.5	14-Mar-2014	1221181	10-Jun-2020	14-Mar-2034		Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30039		Belgium	THERAPEUTIC GAS DELIVERY DEVICE WITH PULSED AND CONTINUOUS FLOW CONTROL	14721120.5	14-Mar-2014	2988828	21-Nov-2018	14-Mar-2034		Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30039		Switzerland	THERAPEUTIC GAS DELIVERY DEVICE WITH PULSED AND CONTINUOUS FLOW CONTROL	14721120.6	14-Mar-2014	2988828	21-Nov-2018	14-Mar-2034		Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30039		Germany	THERAPEUTIC GAS DELIVERY DEVICE WITH PULSED AND CONTINUOUS FLOW CONTROL	14721120.6	14-Mar-2014	2988828	21-Nov-2018	14-Mar-2034		Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30039		Spain	THERAPEUTIC GAS DELIVERY DEVICE WITH PULSED AND CONTINUOUS FLOW CONTROL	14721120.5	14-Mar-2014	2988828	21-Nov-2018	14-Mar-2034		Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30039		France	THERAPEUTIC GAS DELIVERY DEVICE WITH PULSED AND CONTINUOUS FLOW CONTROL	14721120.5	14-Mar-2014	2988828	21-Nov-2018	14-Mar-2034		Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30039		United Kingdom	THERAPEUTIC GAS DELIVERY DEVICE WITH PULSED AND CONTINUOUS FLOW CONTROL	14721120.5	14-Mar-2014	2988828	21-Nov-2018	14-Mar-2034		Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30039		Ireland	THERAPEUTIC GAS DELIVERY DEVICE WITH PULSED AND CONTINUOUS FLOW CONTROL	14721120.6	14-Mar-2014	2988828	21-Nov-2018	14-Mar-2034		Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30039		Italy	THERAPEUTIC GAS DELIVERY DEVICE WITH PULSED AND CONTINUOUS FLOW CONTROL	14721120.5	14-Mar-2014	60201800314157	21-Nov-2018	14-Mar-2034		Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30039		Liechtenstein	THERAPEUTIC GAS DELIVERY DEVICE WITH PULSED AND CONTINUOUS FLOW CONTROL	14721120.5	14-Mar-2014	2988828	21-Nov-2018	14-Mar-2034		Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30039		Netherlands	THERAPEUTIC GAS DELIVERY DEVICE WITH PULSED AND CONTINUOUS FLOW CONTROL	14721120.5	14-Mar-2014	2988828	21-Nov-2018	14-Mar-2034		Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30039	D1	Belgium	THERAPEUTIC GAS DELIVERY DEVICE WITH PULSED AND CONTINUOUS FLOW CONTROL	18207319.7	14-Mar-2014	3468473	27-May-2020	14-Mar-2034		Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30039	D1	Switzerland	THERAPEUTIC GAS DELIVERY DEVICE WITH PULSED AND CONTINUOUS FLOW CONTROL	18207319.7	14-Mar-2014	3468473	27-May-2020	14-Mar-2034		Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30039	D1	Germany	THERAPEUTIC GAS DELIVERY DEVICE WITH PULSED AND CONTINUOUS FLOW CONTROL	18207319.7	14-Mar-2014	3468473	27-May-2020	14-Mar-2034		Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30039	D1	Spain	THERAPEUTIC GAS DELIVERY DEVICE WITH PULSED AND CONTINUOUS FLOW CONTROL	18207319.7	14-Mar-2014	3468473	27-May-2020	14-Mar-2034		Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30039	D1	France	THERAPEUTIC GAS DELIVERY DEVICE WITH PULSED AND CONTINUOUS FLOW CONTROL	18207319.7	14-Mar-2014	3468473	27-May-2020	14-Mar-2034		Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30039	D1	United Kingdom	THERAPEUTIC GAS DELIVERY DEVICE WITH PULSED AND CONTINUOUS FLOW CONTROL	18207319.7	14-Mar-2014	3468473	27-May-2020	14-Mar-2034		Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30039	D1	Ireland	THERAPEUTIC GAS DELIVERY DEVICE WITH PULSED AND CONTINUOUS FLOW CONTROL	18207319.7	14-Mar-2014	3468473	27-May-2020	14-Mar-2034		Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30039	D1	Italy	THERAPEUTIC GAS DELIVERY DEVICE WITH PULSED AND CONTINUOUS FLOW CONTROL	18207319.7	14-Mar-2014	3468473	27-May-2020	14-Mar-2034		Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30039	D1	Netherlands	THERAPEUTIC GAS DELIVERY DEVICE WITH PULSED AND CONTINUOUS FLOW CONTROL	18207319.7	14-Mar-2014	3468473	27-May-2020	14-Mar-2034		Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30039	C1	United States	THERAPEUTIC GAS DELIVERY DEVICE WITH PULSED AND CONTINUOUS FLOW CONTROL	16/483138	10-Apr-2017	10328231	25-Jun-2019	02-Jun-2034		Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY

H-IK-30039		United States	THERAPEUTIC GAS DELIVERY DEVICE WITH PULSED AND CONTINUOUS FLOW CONTROL	14/211919	14-Mar-2014	5618193	11-Apr-2017	03-Jun-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30039	2	United States	THERAPEUTIC GAS DELIVERY DEVICE WITH PULSED AND CONTINUOUS FLOW CONTROL	14/216067	18-Mar-2014	10342848	09-Jul-2019	17-Mar-2036	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30039		Canada	THERAPEUTIC GAS DELIVERY DEVICE WITH PULSED AND CONTINUOUS FLOW CONTROL	2905994	14-Mar-2014				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30039	D1	Japan	THERAPEUTIC GAS DELIVERY DEVICE WITH PULSED AND CONTINUOUS FLOW CONTROL	2019-002369	14-Mar-2014				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30039	D1	Mexico	THERAPEUTIC GAS DELIVERY DEVICE WITH PULSED AND CONTINUOUS FLOW CONTROL	MX/a/2019/004387	14-Mar-2014				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30039	D1	Australia	THERAPEUTIC GAS DELIVERY DEVICE WITH PULSED AND CONTINUOUS FLOW CONTROL	2019204167	14-Mar-2014				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30039	C2	United States	THERAPEUTIC GAS DELIVERY DEVICE WITH PULSED AND CONTINUOUS FLOW CONTROL	16/504881	06-Jul-2019				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30039	D2	European Patent Convention	THERAPEUTIC GAS DELIVERY DEVICE WITH PULSED AND CONTINUOUS FLOW CONTROL	20176675.5	14-Mar-2014				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30040		Australia	SYSTEMS AND METHODS FOR INTELLIGENT GAS SOURCE MANAGEMENT AND/OR SYSTEMS AND METHODS FOR DELIVERY OF THERAPEUTIC GAS AND/OR	2015255668	11-May-2015	2015255668	27-Aug-2020	11-May-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30040		Belgium	SYSTEMS AND METHODS FOR INTELLIGENT GAS SOURCE MANAGEMENT AND/OR SYSTEMS AND METHODS FOR DELIVERY OF THERAPEUTIC GAS AND/OR	15725461.6	11-May-2015	3139986	01-May-2019	11-May-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30040		Switzerland	SYSTEMS AND METHODS FOR INTELLIGENT GAS SOURCE MANAGEMENT AND/OR SYSTEMS AND METHODS FOR DELIVERY OF THERAPEUTIC GAS AND/OR	15725461.6	11-May-2015	3139986	01-May-2019	11-May-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30040		Cyprus, Republic of	SYSTEMS AND METHODS FOR INTELLIGENT GAS SOURCE MANAGEMENT AND/OR SYSTEMS AND METHODS FOR DELIVERY OF THERAPEUTIC GAS AND/OR	15725461.6	11-May-2015	CY20191100820	01-May-2019	11-May-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30040		Germany	SYSTEMS AND METHODS FOR INTELLIGENT GAS SOURCE MANAGEMENT AND/OR SYSTEMS AND METHODS FOR DELIVERY OF THERAPEUTIC GAS AND/OR	15725461.6	11-May-2015	80/2015029285.3	01-May-2019	11-May-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30040		Denmark	SYSTEMS AND METHODS FOR INTELLIGENT GAS SOURCE MANAGEMENT AND/OR SYSTEMS AND METHODS FOR DELIVERY OF THERAPEUTIC GAS AND/OR	15725461.6	11-May-2015	3139986	01-May-2019	11-May-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30040		Spain	SYSTEMS AND METHODS FOR INTELLIGENT GAS SOURCE MANAGEMENT AND/OR SYSTEMS AND METHODS FOR DELIVERY OF THERAPEUTIC GAS AND/OR	15725461.6	11-May-2015	3139986	01-May-2019	11-May-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30040		Finland	SYSTEMS AND METHODS FOR INTELLIGENT GAS SOURCE MANAGEMENT AND/OR SYSTEMS AND METHODS FOR DELIVERY OF THERAPEUTIC GAS AND/OR	15725461.6	11-May-2015	3139986	01-May-2019	11-May-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30040		France	SYSTEMS AND METHODS FOR INTELLIGENT GAS SOURCE MANAGEMENT AND/OR SYSTEMS AND METHODS FOR DELIVERY OF THERAPEUTIC GAS AND/OR	15725461.6	11-May-2015	3139986	01-May-2019	11-May-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30040		United Kingdom	SYSTEMS AND METHODS FOR INTELLIGENT GAS SOURCE MANAGEMENT AND/OR SYSTEMS AND METHODS FOR DELIVERY OF THERAPEUTIC GAS AND/OR	15725461.6	11-May-2015	3139986	01-May-2019	11-May-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30040		Greece	SYSTEMS AND METHODS FOR INTELLIGENT GAS SOURCE MANAGEMENT AND/OR SYSTEMS AND METHODS FOR DELIVERY OF THERAPEUTIC GAS AND/OR	15725461.6	11-May-2015	3139986	01-May-2019	11-May-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30040		Ireland	SYSTEMS AND METHODS FOR INTELLIGENT GAS SOURCE MANAGEMENT AND/OR SYSTEMS AND METHODS FOR DELIVERY OF THERAPEUTIC GAS AND/OR	15725461.6	11-May-2015	3139986	01-May-2019	11-May-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30040		Iceland	SYSTEMS AND METHODS FOR INTELLIGENT GAS SOURCE MANAGEMENT AND/OR SYSTEMS AND METHODS FOR DELIVERY OF THERAPEUTIC GAS AND/OR	15725461.6	11-May-2015	3139986	01-May-2019	11-May-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30040		Italy	SYSTEMS AND METHODS FOR INTELLIGENT GAS SOURCE MANAGEMENT AND/OR SYSTEMS AND METHODS FOR DELIVERY OF THERAPEUTIC GAS AND/OR	15725461.6	11-May-2015	3139986	01-May-2019	11-May-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30040		Liechtenstein	SYSTEMS AND METHODS FOR INTELLIGENT GAS SOURCE MANAGEMENT AND/OR SYSTEMS AND METHODS FOR DELIVERY OF THERAPEUTIC GAS AND/OR	15725461.6	11-May-2015	3139986	01-May-2019	11-May-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30040		Luxembourg	SYSTEMS AND METHODS FOR INTELLIGENT GAS SOURCE MANAGEMENT AND/OR SYSTEMS AND METHODS FOR DELIVERY OF THERAPEUTIC GAS AND/OR	15725461.6	11-May-2015	3139986	01-May-2019	11-May-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30040		Malta	SYSTEMS AND METHODS FOR INTELLIGENT GAS SOURCE MANAGEMENT AND/OR SYSTEMS AND METHODS FOR DELIVERY OF THERAPEUTIC GAS AND/OR	15725461.6	11-May-2015	3139986	01-May-2019	11-May-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30040		Norway	SYSTEMS AND METHODS FOR INTELLIGENT GAS SOURCE MANAGEMENT AND/OR SYSTEMS AND METHODS FOR DELIVERY OF THERAPEUTIC GAS AND/OR	15725461.6	11-May-2015	3139986	01-May-2019	11-May-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30040		Portugal	SYSTEMS AND METHODS FOR INTELLIGENT GAS SOURCE MANAGEMENT AND/OR SYSTEMS AND METHODS FOR DELIVERY OF THERAPEUTIC GAS AND/OR	15725461.6	11-May-2015	3139986	01-May-2019	11-May-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30040		Sweden	SYSTEMS AND METHODS FOR INTELLIGENT GAS SOURCE MANAGEMENT AND/OR SYSTEMS AND METHODS FOR DELIVERY OF THERAPEUTIC GAS AND/OR	15725461.6	11-May-2015	3139986	01-May-2019	11-May-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY

H-IK-30040		United States	ENHANCED PERFORMANCE VERIFICATION FOR THERAPEUTIC GAS DELIVERY	14/709308	11-May-2015	10543325	28-Jan-2020	01-Apr-2038	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30040		Canada	SYSTEMS AND METHODS FOR INTELLIGENT GAS SOURCE MANAGEMENT AND/OR SYSTEMS AND METHODS FOR DELIVERY OF THERAPEUTIC GAS AND/OR	2941781	11-May-2015				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30040		Mexico	SYSTEMS AND METHODS FOR INTELLIGENT GAS SOURCE MANAGEMENT AND/OR SYSTEMS AND METHODS FOR DELIVERY OF THERAPEUTIC GAS AND/OR	MX/a/2016/012787	11-May-2015				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30040		Japan	SYSTEMS AND METHODS FOR INTELLIGENT GAS SOURCE MANAGEMENT AND/OR SYSTEMS AND METHODS FOR DELIVERY OF THERAPEUTIC GAS AND/OR	2017-511572	11-May-2015				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30040	D1	European Patent Convention	SYSTEMS AND METHODS FOR INTELLIGENT GAS SOURCE MANAGEMENT AND/OR SYSTEMS AND METHODS FOR DELIVERY OF THERAPEUTIC GAS AND/OR	19168686.9	11-May-2015				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30040	D1	United States	ENHANCED PERFORMANCE VERIFICATION PORT FOR THERAPEUTIC GAS DELIVERY	18/704530	05-Dec-2019				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30040	D1	Australia	SYSTEMS AND METHODS FOR INTELLIGENT GAS SOURCE MANAGEMENT AND/OR SYSTEMS AND METHODS FOR DELIVERY OF THERAPEUTIC GAS AND/OR	2020207809	11-May-2015				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30041		United States	SYSTEMS AND METHODS FOR DELIVERY OF THERAPEUTIC GAS	14/709318	11-May-2015	10576225	03-Mar-2020	21-Jul-2037	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30041	C1	United States	Systems And Methods For Delivery Of Therapeutic Gas	18/748318	21-Jan-2020				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30042		United States	SYSTEMS AND METHOD FOR INTELLIGENT GAS SOURCE MANAGEMENT	14/709298	11-May-2015	10201874	12-Feb-2019	25-May-2037	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30042	C1	United States	SYSTEMS AND METHODS FOR INTELLIGENT GAS SOURCE MANAGEMENT AND/OR SYSTEMS AND METHODS FOR DELIVERY OF THERAPEUTIC GAS AND/OR	18/217889	12-Dec-2018				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30042	C2	United States	INTELLIGENT GAS SOURCE MANAGEMENT	16/825840	20-Mar-2020				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30042	C3	United States	SYSTEMS AND METHODS FOR INTELLIGENT GAS SOURCE MANAGEMENT	18/825848	20-Mar-2020				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30043		United States	METHOD OF IDENTIFYING AND TREATING PREMATURE INFANTS AT RISK FOR BPD	15/320635	20-Dec-2016	10613103	07-Apr-2020	18-Jun-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30043		Canada	METHOD OF IDENTIFYING AND TREATING PREMATURE INFANTS AT RISK FOR BPD	2951933	18-Jun-2015				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30043		Mexico	METHOD OF IDENTIFYING AND TREATING PREMATURE INFANTS AT RISK FOR BPD	MX/a/2016/016842	18-Jun-2015				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30043	D1	United States	METHOD OF IDENTIFYING AND TREATING PREMATURE INFANTS AT RISK FOR BPD	18/803719	27-Feb-2020				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30044		Australia	METHODS OF REDUCING THE RISK OF MORTALITY ASSOCIATED WITH A MEDICAL TREATMENT	2014203438	24-Jun-2014	2014203438	03-Oct-2019	24-Jun-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30044	D1	Australia	METHODS OF REDUCING THE RISK OF MORTALITY ASSOCIATED WITH A MEDICAL TREATMENT	2019203790	24-Jun-2014	2019203790	25-Jun-2020	24-Jun-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30044		Canada	METHODS OF REDUCING THE RISK OF MORTALITY ASSOCIATED WITH A MEDICAL TREATMENT	2856281	25-Jun-2014			25-Jun-2034	Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30044	C1	United States	METHODS OF REDUCING THE RISK OF MORTALITY ASSOCIATED WITH A MEDICAL TREATMENT	14/325993	08-Jul-2014				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30044	D1	United States	METHODS OF REDUCING THE RISK OF MORTALITY ASSOCIATED WITH A MEDICAL TREATMENT	15/854843	29-Dec-2017				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30044	D2	Australia	Methods of Reducing the Risk of Mortality Associated with a Medical Treatment	2020203871	24-Jun-2014				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30045		United States	THERAPEUTIC GAS DELIVERY DEVICE	29/467025	13-Sep-2013	D730525	26-May-2015	26-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30046		United States	THERAPEUTIC GAS DELIVERY DEVICE	29/457028	13-Sep-2013	D729937	19-May-2015	19-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30047		United States	CLINICAL DECISION SUPPORT SYSTEM AND METHODS	14/026807	13-Sep-2013	10512741	24-Dec-2019	03-May-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30047	D1	United States	CLINICAL DECISION SUPPORT SYSTEM AND METHODS	18/877435	07-Nov-2019				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30048	T.2	United States	ADMINISTRATION AND MONITORING OF NITRIC OXIDE IN EX VIVO FLUIDS	15/069672	10-Mar-2016	10887510	02-Jun-2020	03-Dec-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY

H-IK-30048		United States	ADMINISTRATION AND MONITORING OF NITRIC OXIDE IN EX VIVO FLUIDS	14/095821	03-Dec-2013	9629358	25-Apr-2017	21-May-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30048		Australia	ADMINISTRATION AND MONITORING OF NITRIC OXIDE IN EX VIVO FLUIDS	2014357412	03-Dec-2013	2014357412	14-Jun-2018	01-Dec-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30048		Japan	ADMINISTRATION AND MONITORING OF NITRIC OXIDE IN EX VIVO FLUIDS	2016-535173	01-Dec-2014	6612231	09-Nov-2018	01-Dec-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30048	D1	Australia	ADMINISTRATION AND MONITORING OF NITRIC OXIDE IN EX VIVO FLUIDS	2018203630	01-Dec-2014	2018203630	12-Dec-2019	01-Dec-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30048		Belgium	ADMINISTRATION AND MONITORING OF NITRIC OXIDE IN EX VIVO FLUIDS	14824182.1	01-Dec-2014	3086638	22-Apr-2020	01-Dec-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30048		Switzerland	ADMINISTRATION AND MONITORING OF NITRIC OXIDE IN EX VIVO FLUIDS	14824182.1	01-Dec-2014	3086638	22-Apr-2020	01-Dec-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30048		Germany	ADMINISTRATION AND MONITORING OF NITRIC OXIDE IN EX VIVO FLUIDS	14824182.1	01-Dec-2014	602014064234.9	22-Apr-2020	01-Dec-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30048		Spain	ADMINISTRATION AND MONITORING OF NITRIC OXIDE IN EX VIVO FLUIDS	14824182.1	01-Dec-2014	3086638	22-Apr-2020	01-Dec-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30048		France	ADMINISTRATION AND MONITORING OF NITRIC OXIDE IN EX VIVO FLUIDS	14824182.1	01-Dec-2014	3086638	22-Apr-2020	01-Dec-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30048		United Kingdom	ADMINISTRATION AND MONITORING OF NITRIC OXIDE IN EX VIVO FLUIDS	14824182.1	01-Dec-2014	3086638	22-Apr-2020	01-Dec-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30048		Ireland	ADMINISTRATION AND MONITORING OF NITRIC OXIDE IN EX VIVO FLUIDS	14824182.1	01-Dec-2014	3086638	22-Apr-2020	01-Dec-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30048		Italy	ADMINISTRATION AND MONITORING OF NITRIC OXIDE IN EX VIVO FLUIDS	14824182.1	01-Dec-2014	3086638	22-Apr-2020	01-Dec-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30048		Netherlands	ADMINISTRATION AND MONITORING OF NITRIC OXIDE IN EX VIVO FLUIDS	14824182.1	01-Dec-2014	3086638	22-Apr-2020	01-Dec-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30048		Portugal	ADMINISTRATION AND MONITORING OF NITRIC OXIDE IN EX VIVO FLUIDS	14824182.1	01-Dec-2014	3086638	22-Apr-2020	01-Dec-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30048		Sweden	ADMINISTRATION AND MONITORING OF NITRIC OXIDE IN EX VIVO FLUIDS	14824182.1	01-Dec-2014	3086638	22-Apr-2020	01-Dec-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30048		Canada	ADMINISTRATION AND MONITORING OF NITRIC OXIDE IN EX VIVO FLUIDS	2931943	01-Dec-2014				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30048		Mexico	ADMINISTRATION AND MONITORING OF NITRIC OXIDE IN EX VIVO FLUIDS	MX/a/2015/007057	01-Dec-2014				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30048	D1	United States	ADMINISTRATION AND MONITORING OF NITRIC OXIDE IN EX VIVO FLUIDS	15/493578	21-Apr-2017				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30048		Hong Kong	ADMINISTRATION AND MONITORING OF NITRIC OXIDE IN EX VIVO FLUIDS	17104411.4	12-Jan-2014				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30048	D2	Australia	ADMINISTRATION AND MONITORING OF NITRIC OXIDE IN EX VIVO FLUIDS	2019248828	01-Dec-2014				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30048	D1	Japan	ADMINISTRATION AND MONITORING OF NITRIC OXIDE IN EX VIVO FLUIDS	2019-198848	01-Dec-2014				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30048	D1	European Patent Convention	ADMINISTRATION AND MONITORING OF NITRIC OXIDE IN EX VIVO FLUIDS	20199811.5	01-Dec-2014				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30048	C1	United States	ADMINISTRATION AND MONITORING OF NITRIC OXIDE IN EX VIVO FLUIDS	16/858632	23-Apr-2020				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30049		United States	METHODS OF USING INHALED NITRIC OXIDE GAS FOR TREATMENT OF ACUTE RESPIRATORY DISTRESS SYNDROME IN CHILDREN	14/593085	09-Jan-2016	9381212	05-Jul-2016	09-Jan-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30049	C1	United States	METHODS OF USING INHALED NITRIC OXIDE GAS FOR TREATMENT OF ACUTE RESPIRATORY DISTRESS SYNDROME IN CHILDREN	15/170130	01-Jun-2016	10201564	12-Feb-2019	09-Jan-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30049		Australia	METHODS OF USING INHALED NITRIC OXIDE GAS FOR TREATMENT OF ACUTE RESPIRATORY DISTRESS SYNDROME IN CHILDREN	2016204616	09-Jan-2016	2016204616	16-Jul-2020	09-Jan-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30049	C2	United States	METHODS OF USING INHALED NITRIC OXIDE GAS FOR TREATMENT OF ACUTE RESPIRATORY DISTRESS SYNDROME IN CHILDREN	16/217961	12-Dec-2018	10391120	27-Aug-2018	09-Jan-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30049		Canada	METHODS OF USING INHALED NITRIC OXIDE GAS FOR TREATMENT OF ACUTE RESPIRATORY DISTRESS SYNDROME IN CHILDREN	2938490	09-Jan-2016				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY

H-IK-30049		China (People's Republic)	METHODS OF USING INHALED NITRIC OXIDE GAS FOR TREATMENT OF ACUTE RESPIRATORY DISTRESS SYNDROME IN CHILDREN	201680010494.4	09-Jan-2015				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30049		Japan	METHODS OF USING INHALED NITRIC OXIDE GAS FOR TREATMENT OF ACUTE RESPIRATORY DISTRESS SYNDROME IN CHILDREN	2016-544840	09-Jan-2015				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30049	D1	Japan	METHODS OF USING INHALED NITRIC OXIDE GAS FOR TREATMENT OF ACUTE RESPIRATORY DISTRESS SYNDROME IN CHILDREN	2019-146708	09-Jan-2015				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30049	D1	Australia	METHODS OF USING INHALED NITRIC OXIDE GAS FOR TREATMENT OF ACUTE RESPIRATORY DISTRESS SYNDROME IN CHILDREN	2020202392	08-Jan-2015				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30050		United States	SYSTEMS AND METHODS FOR COMPENSATING LONG TERM SENSITIVITY DRIFT OF ELECTROMECHANICAL GAS SENSORS EXPOSED TO NITRIC OXIDE	14/625406	19-Feb-2016	9279794	08-Mar-2016	19-Feb-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30050		Australia	SYSTEMS AND METHODS FOR COMPENSATING LONG TERM SENSITIVITY DRIFT OF ELECTROCHEMICAL GAS SENSORS EXPOSED TO NITRIC OXIDE	2015218945	19-Feb-2016	2015218945	05-Dec-2019	19-Feb-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30050		New Zealand	SYSTEMS AND METHODS FOR COMPENSATING LONG TERM SENSITIVITY DRIFT OF ELECTROCHEMICAL GAS SENSORS EXPOSED TO NITRIC OXIDE	722834	18-Feb-2016	722834	02-Jul-2019	19-Feb-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30050		China (People's Republic)	SYSTEMS AND METHODS FOR COMPENSATING LONG TERM SENSITIVITY DRIFT OF CATALYTIC TYPE ELECTROMECHANICAL GAS SENSORS	201580013728.1	19-Feb-2016	106662550	27-Sep-2019	19-Feb-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30050		Japan	SYSTEMS AND METHODS FOR COMPENSATING LONG TERM SENSITIVITY DRIFT OF CATALYTIC TYPE ELECTROMECHANICAL GAS SENSORS	2016-550221	19-Feb-2016	6732654	10-Jul-2020	19-Feb-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30050	C2	United States	SYSTEMS AND METHODS FOR COMPENSATING LONG TERM SENSITIVITY DRIFT OF ELECTROMECHANICAL GAS SENSORS EXPOSED TO NITRIC OXIDE	15/256053	02-Sep-2016	10166362	01-Jan-2019	19-Feb-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30050	C3	United States	SYSTEMS AND METHODS FOR COMPENSATING LONG TERM SENSITIVITY DRIFT OF ELECTROMECHANICAL GAS SENSORS EXPOSED TO NITRIC OXIDE	15/277253	27-Sep-2016	9981097	29-May-2018	19-Feb-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30050	C4	United States	SYSTEMS AND METHODS FOR COMPENSATING LONG TERM SENSITIVITY DRIFT OF ELECTROMECHANICAL GAS SENSORS EXPOSED TO NITRIC OXIDE	15/281176	30-Sep-2016	9974910	22-May-2018	19-Feb-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30050	C5	United States	SYSTEMS AND METHODS FOR COMPENSATING LONG TERM SENSITIVITY DRIFT OF ELECTROCHEMICAL GAS SENSORS EXPOSED TO NITRIC OXIDE	15/284611	04-Oct-2016	10220170	05-Mar-2019	19-Feb-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30050	C6	United States	SYSTEMS AND METHODS FOR COMPENSATING LONG TERM SENSITIVITY DRIFT OF ELECTROCHEMICAL GAS SENSORS EXPOSED TO NITRIC OXIDE	15/341142	02-Nov-2016	8956384	01-May-2018	19-Feb-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30050	C7	United States	SYSTEMS AND METHODS FOR COMPENSATING LONG TERM SENSITIVITY DRIFT OF ELECTROMECHANICAL GAS SENSORS EXPOSED TO NITRIC OXIDE	15/341262	02-Nov-2016	10195380	05-Feb-2019	19-Feb-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30050	C8	United States	SYSTEMS AND METHODS FOR COMPENSATING LONG TERM SENSITIVITY DRIFT OF ELECTROMECHANICAL GAS SENSORS EXPOSED TO NITRIC OXIDE	15/341584	02-Nov-2016	9919118	20-Mar-2018	19-Feb-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30050	C9	United States	SYSTEMS AND METHODS FOR COMPENSATING LONG TERM SENSITIVITY DRIFT OF ELECTROMECHANICAL GAS SENSORS EXPOSED TO NITRIC OXIDE	15/343314	04-Nov-2016	10048125	14-Aug-2018	19-Feb-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30050	C1	United States	SYSTEMS AND METHODS FOR COMPENSATING LONG TERM SENSITIVITY DRIFT OF ELECTROMECHANICAL GAS SENSORS EXPOSED TO NITRIC OXIDE	15/010699	29-Jan-2016				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30050		Brazil	SYSTEMS AND METHODS FOR COMPENSATING LONG TERM SENSITIVITY DRIFT OF CATALYTIC TYPE ELECTROMECHANICAL GAS SENSORS	BR112016018076.3	19-Feb-2015				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30050		European Patent Convention	SYSTEMS AND METHODS FOR COMPENSATING LONG TERM SENSITIVITY DRIFT OF CATALYTIC TYPE ELECTROMECHANICAL GAS SENSORS	15708396.5	19-Feb-2016				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30050		Mexico	SYSTEMS AND METHODS FOR COMPENSATING LONG TERM SENSITIVITY DRIFT OF CATALYTIC TYPE ELECTROMECHANICAL GAS SENSORS	MX/a/2016/010359	19-Feb-2015				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30050		Canada	SYSTEMS AND METHODS FOR COMPENSATING LONG TERM SENSITIVITY DRIFT OF CATALYTIC TYPE ELECTROMECHANICAL GAS SENSORS	2938064	19-Feb-2015				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30050	D1	New Zealand	SYSTEMS AND METHODS FOR COMPENSATING LONG TERM SENSITIVITY DRIFT OF ELECTROCHEMICAL GAS SENSORS EXPOSED TO NITRIC OXIDE	751487	10-Feb-2015				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30050	D1	China (People's Republic)	METHODS FOR COMPENSATING LONG TERM SENSITIVITY DRIFT OF ELECTROCHEMICAL GAS SENSORS EXPOSED TO NITRIC OXIDE	201810631028.2	19-Feb-2015				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30050	D1	Australia	SYSTEMS AND METHODS FOR COMPENSATING LONG TERM SENSITIVITY DRIFT OF ELECTROCHEMICAL GAS SENSORS EXPOSED TO NITRIC OXIDE	2019253886	19-Feb-2015				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30050	D2	New Zealand	SYSTEMS AND METHODS FOR COMPENSATING LONG TERM SENSITIVITY DRIFT OF ELECTROCHEMICAL GAS SENSORS EXPOSED TO NITRIC OXIDE	780504	19-Feb-2015				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30050	D1	Japan	Systems and Methods for Compensating Long Term Sensitivity Drift of Electromechanical Gas Sensors Exposed to Nitric Oxide	2020-117484	19-Feb-2016				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30051		Japan	SYSTEMS AND METHODS FOR DELIVERY OF THERAPEUTIC GAS TO PATIENTS IN NEED THEREOF USING ENHANCED BREATHING CIRCUIT GAS (BCG) FLOW	2016-560411	01-Apr-2015	6889751	10-Apr-2020	01-Apr-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY

H-IK-30051		Australia	SYSTEMS AND METHODS FOR DELIVERY OF THERAPEUTIC GAS TO PATIENTS IN NEED THEREOF USING ENHANCED BREATHING CIRCUIT GAS (BCG) FLOW	2016240862	01-Apr-2015	2016240862	23-Jan-2020	01-Apr-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30051		Germany	SYSTEMS AND METHODS FOR DELIVERY OF THERAPEUTIC GAS TO PATIENTS IN NEED THEREOF USING ENHANCED BREATHING CIRCUIT GAS (BCG) FLOW	15715640.7	01-Apr-2015	602016012512.B	20-Jun-2018	01-Apr-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30051		Spain	SYSTEMS AND METHODS FOR DELIVERY OF THERAPEUTIC GAS TO PATIENTS IN NEED THEREOF USING ENHANCED BREATHING CIRCUIT GAS (BCG) FLOW	15715640.7	01-Apr-2015	3125991	20-Jun-2018	01-Apr-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30051		France	SYSTEMS AND METHODS FOR DELIVERY OF THERAPEUTIC GAS TO PATIENTS IN NEED THEREOF USING ENHANCED BREATHING CIRCUIT GAS (BCG) FLOW	15715640.7	01-Apr-2015	3125981	20-Jun-2018	01-Apr-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30051		United Kingdom	SYSTEMS AND METHODS FOR DELIVERY OF THERAPEUTIC GAS TO PATIENTS IN NEED THEREOF USING ENHANCED BREATHING CIRCUIT GAS (BCG) FLOW	15715640.7	01-Apr-2015	3125981	20-Jun-2018	01-Apr-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30051		Italy	SYSTEMS AND METHODS FOR DELIVERY OF THERAPEUTIC GAS TO PATIENTS IN NEED THEREOF USING ENHANCED BREATHING CIRCUIT GAS (BCG) FLOW	15715640.7	01-Apr-2015	502018000027456	20-Jun-2018	01-Apr-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30051		United States	SYSTEMS AND METHODS FOR DELIVERY OF THERAPEUTIC GAS TO PATIENTS IN NEED THEREOF USING ENHANCED BREATHING CIRCUIT GAS (BCG) FLOW	14/672447	30-Mar-2015	10228592	12-Mar-2019	05-Dec-2038	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30051	C1	United States	SYSTEMS AND METHODS FOR DELIVERY OF THERAPEUTIC GAS TO PATIENTS IN NEED THEREOF USING ENHANCED BREATHING CIRCUIT GAS (BCG) FLOW	14/674327	31-Mar-2015	10232138	19-Mar-2019	05-Dec-2038	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30051		Canada	SYSTEMS AND METHODS FOR DELIVERY OF THERAPEUTIC GAS TO PATIENTS IN NEED THEREOF USING ENHANCED BREATHING CIRCUIT GAS (BCG) FLOW	2941758	01-Apr-2015				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30051		Mexico	SYSTEMS AND METHODS FOR DELIVERY OF THERAPEUTIC GAS TO PATIENTS IN NEED THEREOF USING ENHANCED BREATHING CIRCUIT GAS (BCG) FLOW	MX/a/2016/012786	01-Apr-2015				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30051	D1	European Patent Convention	SYSTEMS AND METHODS FOR DELIVERY OF THERAPEUTIC GAS TO PATIENTS IN NEED THEREOF USING ENHANCED BREATHING CIRCUIT GAS (BCG) FLOW	16168306.1	01-Apr-2015				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30051	C2	United States	SYSTEMS AND METHOD FOR DELIVERY OF THERAPEUTIC GAS TO PATIENTS IN NEED THEREOF USING ENHANCED BREATHING CIRCUIT GAS (BCG) FLOW MEASUREMENT	16/253634	22-Jan-2019				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30051	C3	United States	SYSTEMS AND METHOD FOR DELIVERY OF THERAPEUTIC GAS TO PATIENTS IN NEED THEREOF USING ENHANCED BREATHING CIRCUIT GAS (BCG) FLOW MEASUREMENT	16/253671	22-Jan-2019				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30051	D1	Mexico	SYSTEMS AND METHOD FOR DELIVERY OF THERAPEUTIC GAS TO PATIENTS IN NEED THEREOF USING ENHANCED BREATHING CIRCUIT GAS (BCG) FLOW MEASUREMENT	MX/a/2020/010157	16-Apr-2015				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30051	D1	Australia	SYSTEMS AND METHOD FOR DELIVERY OF THERAPEUTIC GAS TO PATIENTS IN NEED THEREOF USING ENHANCED BREATHING CIRCUIT GAS (BCG) FLOW MEASUREMENT	2018283897	01-Apr-2015				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30051	D1	Japan	Systems and Methods for Delivery of Therapeutic Gas to Patients in Need Thereof Using Enhanced Breathing Circuit Gas (BCG) Flow Measurement	2020-069806	08-Apr-2020				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30052		Japan	SYSTEMS AND METHOD FOR DELIVERY OF THERAPEUTIC GAS TO PATIENTS, IN NEED THEREOF, RECEIVING BREATHING GAS FROM A VENTILATOR THAT VARIES AT	2016-560337	01-May-2016	6844705	10-Jan-2020	01-May-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30052		Australia	SYSTEMS AND METHOD FOR DELIVERY OF THERAPEUTIC GAS TO PATIENTS, IN NEED THEREOF, RECEIVING BREATHING GAS FROM A VENTILATOR THAT VARIES AT	2015252994	01-May-2016	2015252994	05-Dec-2019	01-May-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30052		Belgium	SYSTEMS AND METHOD FOR DELIVERY OF THERAPEUTIC GAS TO PATIENTS, IN NEED THEREOF, RECEIVING BREATHING GAS FROM A VENTILATOR THAT VARIES AT	15725145.5	01-May-2016	3137143	06-Mar-2019	01-May-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30052		Switzerland	SYSTEMS AND METHOD FOR DELIVERY OF THERAPEUTIC GAS TO PATIENTS, IN NEED THEREOF, RECEIVING BREATHING GAS FROM A VENTILATOR THAT VARIES AT	15725146.5	01-May-2016	3137143	06-Mar-2019	01-May-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30052		Cyprus, Republic of	SYSTEMS AND METHOD FOR DELIVERY OF THERAPEUTIC GAS TO PATIENTS, IN NEED THEREOF, RECEIVING BREATHING GAS FROM A VENTILATOR THAT VARIES AT	15725145.5	01-May-2016	3137143	06-Mar-2019	01-May-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30052		Germany	SYSTEMS AND METHOD FOR DELIVERY OF THERAPEUTIC GAS TO PATIENTS, IN NEED THEREOF, RECEIVING BREATHING GAS FROM A VENTILATOR THAT VARIES AT	15725145.5	01-May-2016	3137143	06-Mar-2019	01-May-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30052		Denmark	SYSTEMS AND METHOD FOR DELIVERY OF THERAPEUTIC GAS TO PATIENTS, IN NEED THEREOF, RECEIVING BREATHING GAS FROM A VENTILATOR THAT VARIES AT	15725145.5	01-May-2016	3137143	06-Mar-2019	01-May-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30052		Spain	SYSTEMS AND METHOD FOR DELIVERY OF THERAPEUTIC GAS TO PATIENTS, IN NEED THEREOF, RECEIVING BREATHING GAS FROM A VENTILATOR THAT VARIES AT	15725145.5	01-May-2016	3137143	06-Mar-2019	01-May-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30052		Finland	SYSTEMS AND METHOD FOR DELIVERY OF THERAPEUTIC GAS TO PATIENTS, IN NEED THEREOF, RECEIVING BREATHING GAS FROM A VENTILATOR THAT VARIES AT	15725145.5	01-May-2016	3137143	06-Mar-2019	01-May-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30052		France	SYSTEMS AND METHOD FOR DELIVERY OF THERAPEUTIC GAS TO PATIENTS, IN NEED THEREOF, RECEIVING BREATHING GAS FROM A VENTILATOR THAT VARIES AT	15725145.5	01-May-2016	3137143	06-Mar-2019	01-May-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30052		United Kingdom	SYSTEMS AND METHOD FOR DELIVERY OF THERAPEUTIC GAS TO PATIENTS, IN NEED THEREOF, RECEIVING BREATHING GAS FROM A VENTILATOR THAT VARIES AT	15725146.5	01-May-2016	3137143	06-Mar-2019	01-May-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30052		Greece	SYSTEMS AND METHOD FOR DELIVERY OF THERAPEUTIC GAS TO PATIENTS, IN NEED THEREOF, RECEIVING BREATHING GAS FROM A VENTILATOR THAT VARIES AT	15725145.5	01-May-2016	3137143	06-Mar-2019	01-May-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY

H-IK-30052		Ireland	SYSTEMS AND METHOD FOR DELIVERY OF THERAPEUTIC GAS TO PATIENTS, IN NEED THEREOF, RECEIVING BREATHING GAS FROM A VENTILATOR THAT VARIES AT	15725145.5	01-May-2015	3137143	06-Mar-2019	01-May-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30052		Iceland	SYSTEMS AND METHOD FOR DELIVERY OF THERAPEUTIC GAS TO PATIENTS, IN NEED THEREOF, RECEIVING BREATHING GAS FROM A VENTILATOR THAT VARIES AT	16725145.5	01-May-2015	3137143	06-Mar-2019	01-May-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30062		Italy	SYSTEMS AND METHOD FOR DELIVERY OF THERAPEUTIC GAS TO PATIENTS, IN NEED THEREOF, RECEIVING BREATHING GAS FROM A VENTILATOR THAT VARIES AT	16725145.5	01-May-2015	3137143	06-Mar-2019	01-May-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30052		Liechtenstein	SYSTEMS AND METHOD FOR DELIVERY OF THERAPEUTIC GAS TO PATIENTS, IN NEED THEREOF, RECEIVING BREATHING GAS FROM A VENTILATOR THAT VARIES AT	16725145.5	01-May-2015	3137143	06-Mar-2019	01-May-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30052		Luxembourg	SYSTEMS AND METHOD FOR DELIVERY OF THERAPEUTIC GAS TO PATIENTS, IN NEED THEREOF, RECEIVING BREATHING GAS FROM A VENTILATOR THAT VARIES AT	15725145.5	01-May-2015	3137143	06-Mar-2019	01-May-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30052		Malta	SYSTEMS AND METHOD FOR DELIVERY OF THERAPEUTIC GAS TO PATIENTS, IN NEED THEREOF, RECEIVING BREATHING GAS FROM A VENTILATOR THAT VARIES AT	15725145.5	01-May-2015	3137143	06-Mar-2019	01-May-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30052		Netherlands	SYSTEMS AND METHOD FOR DELIVERY OF THERAPEUTIC GAS TO PATIENTS, IN NEED THEREOF, RECEIVING BREATHING GAS FROM A VENTILATOR THAT VARIES AT	15725145.5	01-May-2015	3137143	06-Mar-2019	01-May-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30052		Norway	SYSTEMS AND METHOD FOR DELIVERY OF THERAPEUTIC GAS TO PATIENTS, IN NEED THEREOF, RECEIVING BREATHING GAS FROM A VENTILATOR THAT VARIES AT	16725145.5	01-May-2015	3137143	06-Mar-2019	01-May-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30052		Portugal	SYSTEMS AND METHOD FOR DELIVERY OF THERAPEUTIC GAS TO PATIENTS, IN NEED THEREOF, RECEIVING BREATHING GAS FROM A VENTILATOR THAT VARIES AT	15725145.5	01-May-2015	3137143	06-Mar-2019	01-May-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30052		Sweden	SYSTEMS AND METHOD FOR DELIVERY OF THERAPEUTIC GAS TO PATIENTS, IN NEED THEREOF, RECEIVING BREATHING GAS FROM A VENTILATOR THAT VARIES AT	15725145.5	01-May-2015	3137143	06-Mar-2019	01-May-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30052	C1	United States	SYSTEMS AND METHOD FOR DELIVERY OF THERAPEUTIC GAS TO PATIENTS, IN NEED THEREOF, RECEIVING BREATHING GAS FROM A VENTILATOR THAT VARIES AT	16058402	08-Aug-2018	10835696	17-Nov-2020	22-Oct-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30052		United States	SYSTEMS AND METHOD FOR DELIVERY OF THERAPEUTIC GAS TO PATIENTS, IN NEED THEREOF, RECEIVING BREATHING GAS FROM A VENTILATOR THAT VARIES AT	147700584	30-Apr-2015	19071213	11-Sep-2018	06-Dec-2038	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30052		Canada	SYSTEMS AND METHOD FOR DELIVERY OF THERAPEUTIC GAS TO PATIENTS, IN NEED THEREOF, RECEIVING BREATHING GAS FROM A VENTILATOR THAT VARIES AT	2941755	01-May-2015				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30052		Mexico	SYSTEMS AND METHOD FOR DELIVERY OF THERAPEUTIC GAS TO PATIENTS, IN NEED THEREOF, RECEIVING BREATHING GAS FROM A VENTILATOR THAT VARIES AT	MX/a/2016/012705	01-May-2015				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30052	D1	European Patent Convention	SYSTEMS AND METHOD FOR DELIVERY OF THERAPEUTIC GAS TO PATIENTS, IN NEED THEREOF, RECEIVING BREATHING GAS FROM A VENTILATOR THAT VARIES AT	19155848.5	01-May-2015				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30052	D1	Australia	SYSTEMS AND METHOD FOR DELIVERY OF THERAPEUTIC GAS TO PATIENTS, IN NEED THEREOF, RECEIVING BREATHING GAS FROM A VENTILATOR THAT VARIES AT	2019232815	01-May-2015				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30052	D1	Japan	SYSTEMS AND METHOD FOR DELIVERY OF THERAPEUTIC GAS TO PATIENTS, IN NEED THEREOF, RECEIVING BREATHING GAS FROM A VENTILATOR THAT VARIES AT	2020-001309	01-May-2015				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30052	C2	United States	SYSTEMS AND METHOD FOR DELIVERY OF THERAPEUTIC GAS TO PATIENTS, IN NEED THEREOF, RECEIVING BREATHING GAS FROM A VENTILATOR THAT VARIES AT	17078821	23-Oct-2020				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30052	D1	Mexico	Systems and Methods for Delivery of Therapeutic Gas to Patients, in Need Thereof, Receiving Breathing Gas From a Ventilator That Varies at Least Pressure and/or Flow Using	MX/a/2020/011872	01-May-2015				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30053		United States	SYSTEM AND METHODS FOR INDICATING LIFETIME OF AN NO2-TO-NO REACTOR CARTRIDGE USED TO DELIVER NO FOR INHALATION THERAPY TO A PATIENT	147712418	14-May-2015	10525228	07-Jan-2020	11-Aug-2037	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30054		United States	NO2 TO NO REACTOR CARTRIDGE WITH IMPROVED CARTRIDGE STRUCTURE AND/OR THAT MAY BE USED WITH CONSTANT AND/OR VARIABLE FLOW	147750428	25-Jun-2015				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30055		United States	SYSTEMS AND METHODS FOR MANUFACTURING AND SAFETY OF AN NO2-TO-NO REACTOR CARTRIDGE USED TO DELIVER NO FOR INHALATION THERAPY TO	147744298	19-Jun-2015	10384031	20-Aug-2019	13-Feb-2038	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30055	1	United States	SYSTEMS AND METHODS FOR MANUFACTURING AND SAFETY OF AN NO2-TO-NO REACTOR CARTRIDGE USED TO DELIVER NO FOR INHALATION THERAPY TO	18502828	03-Jul-2019				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30058		European Patent Convention	DEVICE AND METHOD FOR DIFFUSING HIGH CONCENTRATION NO WITH INHALATION THERAPY GAS	16778680.7	30-Sep-2018	3359973	25-Nov-2020	30-Sep-2036	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30058		United States	DEVICE AND METHOD FOR DIFFUSING HIGH CONCENTRATION NO WITH INHALATION THERAPY GAS	15291612	30-Sep-2016				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30058		Australia	DEVICE AND METHOD FOR DIFFUSING HIGH CONCENTRATION NO WITH INHALATION THERAPY GAS	2016329081	30-Sep-2016				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30058		Brazil	DEVICE AND METHOD FOR DIFFUSING HIGH CONCENTRATION NO WITH INHALATION THERAPY GAS	BR112018006900-1	30-Sep-2016				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30058		Canada	DEVICE AND METHOD FOR DIFFUSING HIGH CONCENTRATION NO WITH INHALATION THERAPY GAS	3000210	30-Sep-2016				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY

H-IK-30058		China (People's Republic)	DEVICE AND METHOD FOR DIFFUSING HIGH CONCENTRATION NO WITH INHALATION THERAPY GAS	201880061261.1	30-Sep-2018				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30058		Korea, Republic of	DEVICE AND METHOD FOR DIFFUSING HIGH CONCENTRATION NO WITH INHALATION THERAPY GAS	10-2018-7012211	30-Sep-2018				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30058		Mexico	DEVICE AND METHOD FOR DIFFUSING HIGH CONCENTRATION NO WITH INHALATION THERAPY GAS	MX/a/2018/004020	30-Sep-2018				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30058		Japan	DEVICE AND METHOD FOR DIFFUSING HIGH CONCENTRATION NO WITH INHALATION THERAPY GAS	2018-516421	30-Sep-2018				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30058		Hong Kong	DEVICE AND METHOD FOR DIFFUSING HIGH CONCENTRATION NO WITH INHALATION THERAPY GAS	18110230.9	30-Sep-2018				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-30058	D1	European Patent Convention	Device and Method for Diffusing High Concentration NO with Inhalation Therapy Gas	20209315.9	30-Sep-2018				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-40001		Japan	METHOD OF TREATING PATIENTS WITH HEPATORENAL SYNDROME TYPE 1	2017-521986	22-Oct-2016	6673915	09-Mar-2020	22-Oct-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-40001		China (People's Republic)	METHOD OF TREATING PATIENTS WITH HEPATORENAL SYNDROME TYPE 1	201580082745.3	22-Oct-2016			22-Oct-2035	Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-40001		United States	METHOD OF TREATING PATIENTS WITH HEPATORENAL SYNDROME TYPE 1	14/620392	22-Oct-2016	10335452	02-Jul-2019	05-Apr-2037	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-40001		European Patent Convention	METHOD OF TREATING PATIENTS WITH HEPATORENAL SYNDROME TYPE 1	15791430.0	22-Oct-2016				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-40001	D1	United States	METHOD OF TREATING PATIENTS WITH HEPATORENAL SYNDROME TYPE 1	16/411044	14-May-2019				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-40001	D1	Japan	METHOD OF TREATING PATIENT WITH PATIENTS WITH HEPATORENAL SYNDROME TYPE 1	2019-165678	22-Oct-2016				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-40001	T1	United States	METHOD OF TREATING PATIENTS WITH HEPATORENAL SYNDROME TYPE 1	16/699151	30-Oct-2019				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-40001	T.3	United States	METHOD OF TREATING PATIENTS WITH HEPATORENAL SYNDROME TYPE 1	17/104884	26-Nov-2020				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-40001	C1	United States	METHOD OF TREATING PATIENTS WITH HEPATORENAL SYNDROME TYPE 1	18/828874	24-Mar-2020				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-40001	T2	United States	METHOD OF TREATING PATIENTS WITH HEPATORENAL SYNDROME TYPE 1	18/828881	24-Mar-2020				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001		Mexico	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	MX/a/2011/012457	27-May-2009	328804	06-Jan-2015	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001		Hong Kong	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	12106773.6	27-May-2009	1166029	23-Mar-2018	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001		Philippines	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	1-2011-503427	27-May-2009			27-May-2029	Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001		Brazil	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	PI 0924534-0	27-May-2009			27-May-2029	Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001		Russian Federation	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	2011147160	27-May-2009	2541742	15-Jan-2016	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001		Singapore	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	201108516-4	27-May-2009	176149	23-Jan-2015	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001		Australia	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	2009324260	27-May-2009	2009324260	29-Sep-2011	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001		China (People's Republic)	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	200980159463.X	27-May-2009	ZL 200980159463X	17-Jun-2015	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001		Israel	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	216507	27-May-2009	216507	01-Mar-2015	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001		Indonesia	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	WD0201104759	27-May-2009	IDP000039193	31-Mar-2015	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001		Korea, Republic of	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURIZED CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	10-2011-7031109	27-May-2009	10-1567125	02-Nov-2015	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001		Japan	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	2012-513025	27-May-2009	5639845	31-Oct-2014	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY

H-IK-70001		Canada	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	2763111	27-May-2008	2763111	24-Sep-2019	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001		India	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	2793/MUHN/P/2011	27-May-2008			27-May-2028	Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001	D1	Australia	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	2010241318	27-May-2009	2010241318	08-Mar-2012	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001	D1	Japan	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	2014-217096	27-May-2009	6246107	24-Nov-2017	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001	D1	Singapore	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	10201406878Y	27-May-2009	10201406878Y	08-Nov-2017	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001	D1	Israel	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	236195	27-May-2009	235105	01-Mar-2018	27-May-2028	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001	D1	Russian Federation	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	2014151628	27-May-2009	2897372	13-Aug-2019	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001	D1	China (People's Republic)	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURIZED CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	201510290984.8	27-May-2009	105214193	17-Nov-2017	27-May-2028	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001	D1	Mexico	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	MX/a/2018/000027	27-May-2009			27-May-2028	Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001	D2	Australia	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	2010241315	27-May-2009	2010241315	09-May-2013	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001	D1	Korea, Republic of	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURIZED CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	10-2015-7031346	27-May-2009	10-1661872	26-Sep-2018	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001	D2	Korea, Republic of	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURIZED CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	10-2016-7026301	27-May-2009	10-1740209	20-May-2017	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001	D3	Korea, Republic of	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	10-2017-7013823	27-May-2009	10-1998271	10-Sep-2018	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001		Austria	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURIZED CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	09789720.1	27-May-2009	2435121	05-Apr-2017	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001		Belgium	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURIZED CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	09789720.1	27-May-2009	2435121	05-Apr-2017	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001		Germany	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURIZED CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	09789720.1	27-May-2009	2435121	05-Apr-2017	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001		Denmark	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURIZED CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	09789720.1	27-May-2009	2435121	05-Apr-2017	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001		Spain	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURIZED CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	09789720.1	27-May-2009	2435121	05-Apr-2017	27-May-2028	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001		Finland	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURIZED CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	09789720.1	27-May-2009	2435121	05-Apr-2017	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001		France	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURIZED CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	09789720.1	27-May-2009	2435121	05-Apr-2017	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001		United Kingdom	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURIZED CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	09789720.1	27-May-2008	2435121	05-Apr-2017	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001		Greece	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURIZED CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	09789720.1	27-May-2009	2435121	05-Apr-2017	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001		Croatia	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURIZED CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	09789720.1	27-May-2009	2435121	05-Apr-2017	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001		Hungary	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURIZED CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	09789720.1	27-May-2009	2435121	05-Apr-2017	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001		Ireland	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURIZED CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	09789720.1	27-May-2009	2435121	05-Apr-2017	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001		Iceland	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURIZED CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	09789720.1	27-May-2009	2435121	05-Apr-2017	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001		Italy	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURIZED CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	09789720.1	27-May-2009	502017000076070	06-Apr-2017	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001		Lithuania	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURIZED CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	09789720.1	27-May-2008	2435121	06-Apr-2017	27-May-2028	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY

H-IK-70001		Liechtenstein	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURIZED CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	09789720.1	27-May-2009	2435121	05-Apr-2017	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001		Luxembourg	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURIZED CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	09789720.1	27-May-2009	2435121	05-Apr-2017	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001		Latvia	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURIZED CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	09789720.1	27-May-2009	2435121	05-Apr-2017	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001		Monaco	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURIZED CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	09789720.1	27-May-2009	2435121	05-Apr-2017	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001		North Macedonia	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURIZED CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	09789720.1	27-May-2009	2435121	05-Apr-2017	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001		Malta	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURIZED CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	09789720.1	27-May-2009	2435121	05-Apr-2017	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001		Netherlands	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURIZED CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	09789720.1	27-May-2009	2435121	05-Apr-2017	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001		Norway	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURIZED CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	09789720.1	27-May-2009	2435121	05-Apr-2017	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001		Portugal	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURIZED CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	09789720.1	27-May-2009	2435121	05-Apr-2017	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001		Sweden	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURIZED CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	09789720.1	27-May-2009	2435121	05-Apr-2017	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001		Slovenia	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURIZED CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	09789720.1	27-May-2009	2435121	05-Apr-2017	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001		Turkey	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURIZED CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	09789720.1	27-May-2009	2435121	05-Apr-2017	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001		Cyprus, Republic of	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURIZED CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	09789720.1	27-May-2009	2435121	05-Apr-2017	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001		Switzerland	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURIZED CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	09789720.1	27-May-2009	2435121	05-Apr-2017	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001	D2	Japan	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	2017-219152	27-May-2009	0618970	22-Nov-2019	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001	D1	Hong Kong	Devices and Methods for Engaging Indexed Valve and Pressure Canister Assembly with Collar and for Linear Actuation by Plunger Assembly into Fluid Communication with Device	18105602.1	27-May-2009	1217894	05-Oct-2018	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001	DEP1	Hong Kong	Devices and Methods for Engaging Indexed Valve and Pressure Canister Assembly with Collar and for Linear Actuation by Plunger Assembly into Fluid Communication with Device	18102704.3	27-May-2009	1243017	26-Jul-2019	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001	D2	European Patent Convention	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	18200498.6	27-May-2009	3498328	14-Oct-2020	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001	D1	Austria	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	17164754.8	27-May-2009	3210644	17-Oct-2018	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001	D1	Belgium	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	17164754.8	27-May-2009	3210644	17-Oct-2018	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001	D1	Switzerland	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	17164754.8	27-May-2009	3210644	17-Oct-2018	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001	D1	Cyprus, Republic of	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	17184754.8	27-May-2009	3210644	17-Oct-2018	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001	D1	Germany	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	17184754.8	27-May-2009	3210644	17-Oct-2018	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001	D1	Denmark	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	17164754.8	27-May-2009	3210644	17-Oct-2018	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001	D1	Spain	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	17184754.8	27-May-2009	3210644	17-Oct-2018	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001	D1	Finland	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	17164754.8	27-May-2009	3210644	17-Oct-2018	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001	D1	France	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	17164754.8	27-May-2009	3210644	17-Oct-2018	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001	D1	United Kingdom	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	17164754.8	27-May-2009	3210644	17-Oct-2018	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY

H-IK-70001	D1	Greece	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	17164754.8	27-May-2009	3210644	17-Oct-2018	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001	D1	Croatia	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	17164754.8	27-May-2009	3210644	17-Oct-2018	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001	D1	Hungary	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	17164754.8	27-May-2009	3210644	17-Oct-2018	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001	D1	Ireland	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	17164754.8	27-May-2009	3210644	17-Oct-2018	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001	D1	Iceland	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	17164754.8	27-May-2009	3210644	17-Oct-2018	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001	D1	Italy	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	17164754.8	27-May-2009	3210644	17-Oct-2018	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001	D1	Liechtenstein	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	17164754.8	27-May-2009	3210644	17-Oct-2018	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001	D1	Lithuania	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	17164754.8	27-May-2009	3210644	17-Oct-2018	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001	D1	Luxembourg	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	17164754.8	27-May-2009	3210644	17-Oct-2018	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001	D1	Latvia	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	17164754.8	27-May-2009	3210644	17-Oct-2018	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001	D1	Monaco	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	17164754.8	27-May-2009	3210644	17-Oct-2018	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001	D1	North Macedonia	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	17164754.8	27-May-2009	3210644	17-Oct-2018	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001	D1	Malta	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	17164754.8	27-May-2009	3210644	17-Oct-2018	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001	D1	Norway	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	17164754.8	27-May-2009	3210644	17-Oct-2018	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001	D1	Netherlands	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	17164754.8	27-May-2009	3210644	17-Oct-2018	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001	D1	Portugal	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	17164754.8	27-May-2009	3210644	17-Oct-2018	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001	D1	Sweden	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	17164754.8	27-May-2009	3210644	17-Oct-2018	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001	D1	Slovenia	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	17164754.8	27-May-2009	3210644	17-Oct-2018	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001	D1	Turkey	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	17164754.8	27-May-2009	3210644	17-Oct-2018	27-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001	d2	Israel	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	255703	28-May-2009	255703	01-Feb-2020	28-May-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001		United States	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	13/280505	26-Sep-2011	8757148	24-Jun-2014	23-Jan-2030	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001	C2	United States	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	14/301692	11-Jun-2014	9895199	20-Feb-2018	23-Jan-2030	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001	D2	Singapore	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	10201708599T	27-May-2009				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70001	C3	United States	DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND PRESSURE CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR ACTUATION BY PLUNGER	15/899053	19-Feb-2018				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002		United States	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	11/231554	21-Sep-2005	7523752	28-Apr-2009	21-Sep-2025	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002	C2	United States	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	13/287663	02-Nov-2011	8517016	27-Aug-2013	21-Sep-2025	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002	C3	United States	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	13/284433	28-Oct-2011	8397721	19-Mar-2013	21-Sep-2025	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002	C4	United States	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	13/638272	28-Jun-2012	8408206	02-Apr-2013	21-Sep-2025	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY

H-IK-70002	C6	United States	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	13/942049	15-Jul-2013	8720440	13-May-2014	21-Sep-2025	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002	C7	United States	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	13/942115	16-Jul-2013	8607792	17-Dec-2013	21-Sep-2025	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002	C8	United States	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	13/942136	16-Jul-2013	8616204	31-Dec-2013	21-Sep-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002	C9	United States	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	14/551186	24-Nov-2014	10099029	18-Oct-2018	21-Sep-2025	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002	C10	United States	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	15/167048	27-May-2016	10548920	04-Feb-2020	21-Sep-2025	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002	C1	United States	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	12/430220	27-Apr-2009	8091649	10-Jan-2012	19-Mar-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002		Japan	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	2008-532273	13-Sep-2008	4994380	18-May-2012	13-Sep-2028	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002		China (People's Republic)	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	200880043340.6	13-Sep-2008	200880043340.6	23-Apr-2014	13-Sep-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002		Australia	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	2006295150	13-Sep-2006	2006295150	06-Jan-2011	13-Sep-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002		Canada	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	2623052	13-Sep-2006	2623052	19-Apr-2016	13-Sep-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002		Mexico	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	MX/a/06/003829	13-Sep-2006	287082	31-May-2011	13-Sep-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002		Brazil	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	P0616155-3	13-Sep-2006			13-Sep-2026	Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002	D1	Canada	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	2636041	13-Sep-2006	2636041	17-May-2016	13-Sep-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002	D1	Mexico	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	MX/a/2011/003598	13-Sep-2006	323925	26-Sep-2014	13-Sep-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002	D1	China (People's Republic)	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	201310063147.0	13-Sep-2006	103285487	02-Mar-2016	13-Sep-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002	D1	Australia	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	2014201260	13-Sep-2006	2014201260	16-Jul-2016	13-Sep-2028	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002	D2	Australia	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	2015201474	13-Sep-2006	2015201474	24-Aug-2017	13-Sep-2028	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002	D2	Mexico	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	MX/a/2014/010973	13-Sep-2006	370846	18-Dec-2019	13-Sep-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002	D2	China (People's Republic)	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	201310063016.2	13-Sep-2006	103463720	12-Apr-2017	13-Sep-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002		Austria	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	06803413.1	13-Sep-2006	1937343	30-Mar-2016	13-Sep-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002		Bulgaria	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	06803413.1	13-Sep-2006	1937343	30-Mar-2016	13-Sep-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002		Switzerland	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	06803413.1	13-Sep-2006	1937343	30-Mar-2016	13-Sep-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002		Cyprus, Republic of	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	06803413.1	13-Sep-2006	1937343	30-Mar-2016	13-Sep-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002		Czech Republic	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	06803413.1	13-Sep-2006	1937343	30-Mar-2016	13-Sep-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002		Germany	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	06803413.1	13-Sep-2006	1937343	30-Mar-2016	13-Sep-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002		Estonia	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	06803413.1	13-Sep-2006	1937343	30-Mar-2016	13-Sep-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002		France	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	06803413.1	13-Sep-2006	1937343	30-Mar-2016	13-Sep-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002		Greece	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	06803413.1	13-Sep-2006	1937343	30-Mar-2016	13-Sep-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY

H-IK-70002		Hungary	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	06803413.1	13-Sep-2006	1937343	30-Mar-2016	13-Sep-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002		Ireland	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	06803413.1	13-Sep-2006	1937343	30-Mar-2016	13-Sep-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002		Italy	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	06803413.1	13-Sep-2006	502016000057781	30-Mar-2016	13-Sep-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002		Lithuania	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	06803413.1	13-Sep-2006	1937343	30-Mar-2016	13-Sep-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002		Latvia	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	06803413.1	13-Sep-2006	1937343	30-Mar-2016	13-Sep-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002		Monaco	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	06803413.1	13-Sep-2006	1937343	30-Mar-2016	13-Sep-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002		Poland	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	06803413.1	13-Sep-2006	1837343	30-Mar-2016	13-Sep-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002		Romania	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	06803413.1	13-Sep-2006	1937343	30-Mar-2016	13-Sep-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002		Slovenia	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	06803413.1	13-Sep-2006	1937343	30-Mar-2016	13-Sep-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002		Slovakia	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	06803413.1	13-Sep-2006	1937343	30-Mar-2016	13-Sep-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002		Belgium	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	06803413.1	13-Sep-2006	1937343	30-Mar-2016	13-Sep-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002		Spain	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	06803413.1	13-Sep-2006	1937343	30-Mar-2016	13-Sep-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002		Finland	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	06803413.1	13-Sep-2006	1937343	30-Mar-2016	13-Sep-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002		United Kingdom	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	06803413.1	13-Sep-2006	1937343	30-Mar-2016	13-Sep-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002		Iceland	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	06803413.1	13-Sep-2006	1937343	30-Mar-2016	13-Sep-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002		Luxembourg	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	06803413.1	13-Sep-2006	1937343	30-Mar-2016	13-Sep-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002		Netherlands	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	06803413.1	13-Sep-2006	1937343	30-Mar-2016	13-Sep-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002		Portugal	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	06803412.1	13-Sep-2006	1937343	30-Mar-2016	13-Sep-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002		Sweden	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	06803413.1	13-Sep-2006	1937343	30-Mar-2016	13-Sep-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002		Turkey	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	06803413.1	13-Sep-2006	1937343	30-Mar-2016	13-Sep-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002		Denmark	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	06803413.1	13-Sep-2006	1937343	30-Mar-2016	13-Sep-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002	D1	Germany	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	13172342.1	13-Sep-2006	2644222	21-Mar-2018	13-Sep-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002	D1	United Kingdom	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	13172342.1	13-Sep-2006	2644222	21-Mar-2018	13-Sep-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002	D1	Spain	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	13172342.1	13-Sep-2006	2644222	21-Mar-2018	13-Sep-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002	D1	Italy	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	13172342.1	13-Sep-2006	2644222	21-Mar-2018	13-Sep-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002	D1	France	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	13172342.1	13-Sep-2006	2644222	21-Mar-2018	13-Sep-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002	C5	United States	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	131778596	27-Feb-2013	9351994	31-May-2016	10-Dec-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002		Hong Kong	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	09104508.7	20-May-2009	1126150	05-Dec-2014	20-May-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY

H-IK-70002	T1	United States	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	13/331807	20-Dec-2011	8893717	25-Nov-2014	17-Feb-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002	D1	Hong Kong	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	14102282.7	06-Mar-2014	1189181	19-May-2017	06-Mar-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002	D2	Hong Kong	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	14105893.1	20-Jun-2014	1182504	27-Apr-2018	20-Jun-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002	D2	European Patent Convention	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	18182938.7	13-Sep-2006				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002	C11	United States	System and Method of Administering a Pharmaceutical Gas to a Patient	16/156453	10-Oct-2010				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002	EPD2	Hong Kong	System and Method of Administering a Pharmaceutical Gas to a Patient	18120604.0	13-Sep-2006				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002	C12	United States	SYSTEM AND METHOD OF ADMINISTERING A PHARMACEUTICAL GAS TO A PATIENT	16/779912	03-Feb-2020				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002	D3	Mexico	System and Method of Administering a Pharmaceutical Gas to a Patient	MX/a/2019/015455	13-Sep-2006				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70002	D5	Australia	System and Method of Administering a Pharmaceutical Gas to a Patient	2020202875	13-Sep-2006				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70008	T1	United States	METHODS OF ADMINISTERING HIGH CONCENTRATIONS OF NITRIC OXIDE	13/827240	14-Mar-2013	10556086	11-Feb-2020	15-Mar-2032	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70008		European Patent Convention	METHODS OF ADMINISTERING HIGH CONCENTRATIONS OF NITRIC OXIDE	13714771.6	14-Mar-2013			14-Mar-2033	Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70008		India	METHODS OF ADMINISTERING HIGH CONCENTRATIONS OF NITRIC OXIDE	7480CHENPI/2014	14-Mar-2013			14-Mar-2033	Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70008		Australia	METHODS OF ADMINISTERING HIGH CONCENTRATIONS OF NITRIC OXIDE	2013231976	14-Mar-2013	2013231976	22-Mar-2018	14-Mar-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70008		Brazil	METHODS OF ADMINISTERING HIGH CONCENTRATIONS OF NITRIC OXIDE	112014022627-0	14-Mar-2013			14-Mar-2033	Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70008		Canada	METHODS OF ADMINISTERING HIGH CONCENTRATIONS OF NITRIC OXIDE	2867022	14-Mar-2013			14-Mar-2033	Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70008		Japan	METHODS OF ADMINISTERING HIGH CONCENTRATIONS OF NITRIC OXIDE	2015-900634	14-Mar-2013	8245613	13-Dec-2017	14-Mar-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70008		Mexico	METHODS OF ADMINISTERING HIGH CONCENTRATIONS OF NITRIC OXIDE	MX/a/2014/011010	14-Mar-2013	388668	18-Oct-2019	14-Mar-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70008	D1	Japan	METHODS OF ADMINISTERING HIGH CONCENTRATIONS OF NITRIC OXIDE	2017-216161	14-Mar-2013	8466543	09-Jan-2019	14-Mar-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70008	D1	Australia	METHODS OF ADMINISTERING HIGH CONCENTRATIONS OF NITRIC OXIDE	2017265011	14-Mar-2013	2017265011	07-May-2020	14-Mar-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70008		Hong Kong	METHODS OF ADMINISTERING HIGH CONCENTRATIONS OF NITRIC OXIDE	15106849.3	17-Jul-2015				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70008	D1	China (People's Republic)	METHODS OF ADMINISTERING HIGH CONCENTRATIONS OF NITRIC OXIDE***PPH FILING***	201910030907.5	14-Mar-2013				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70008	D2	Japan	METHODS OF ADMINISTERING HIGH CONCENTRATIONS OF NITRIC OXIDE	2019-001785	14-Mar-2013				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70008	D1	Mexico	METHODS OF ADMINISTERING HIGH CONCENTRATIONS OF NITRIC OXIDE	MX/a/2019/004034	14-Mar-2013				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70008	D2	Australia	Methods of Administering High Concentrations of Nitric Oxide	2020202487	14-Mar-2013				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70008	C1	United States	Methods of Administering High Concentrations of Nitric Oxide	16/785983	10-Feb-2020				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70009		United States	BREATHING APPARATUS DETECTION AND PURGING	13/440546	09-Apr-2012	8944051	03-Feb-2015	05-Apr-2032	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70009	C1	United States	BREATHING APPARATUS DETECTION AND PURGING	14/394433	03-Apr-2013	9108016	18-Aug-2015	05-Apr-2032	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70009	C2	United States	BREATHING APPARATUS DETECTION AND PURGING	14/827523	17-Aug-2015	9560040	24-Jan-2017	05-Apr-2032	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY

H-IK-70009		Canada	BREATHING APPARATUS DETECTION AND PURGING	2869401	03-Apr-2013			03-Apr-2033	Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70009		Belgium	BREATHING APPARATUS DETECTION AND PURGING	13716927.2	03-Apr-2013	2833952	03-Jun-2020	03-Apr-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70009		Switzerland	BREATHING APPARATUS DETECTION AND PURGING	13716927.2	03-Apr-2013	2833952	03-Jun-2020	03-Apr-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70009		Germany	BREATHING APPARATUS DETECTION AND PURGING	13716927.2	03-Apr-2013	2833952	03-Jun-2020	03-Apr-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70009		Spain	BREATHING APPARATUS DETECTION AND PURGING	13716927.2	03-Apr-2013	2833952	03-Jun-2020	03-Apr-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70009		France	BREATHING APPARATUS DETECTION AND PURGING	13716927.2	03-Apr-2013	2833952	03-Jun-2020	03-Apr-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70009		United Kingdom	BREATHING APPARATUS DETECTION AND PURGING	13716927.2	03-Apr-2013	2833952	03-Jun-2020	03-Apr-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70009		Ireland	BREATHING APPARATUS DETECTION AND PURGING	13716927.2	03-Apr-2013	2833952	03-Jun-2020	03-Apr-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70009		Italy	BREATHING APPARATUS DETECTION AND PURGING	13716927.2	03-Apr-2013	50202000062369	03-Jun-2020	03-Apr-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70009		Netherlands	BREATHING APPARATUS DETECTION AND PURGING	13716927.2	03-Apr-2013	2833952	03-Jun-2020	03-Apr-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70009	C3	United States	BREATHING APPARATUS DETECTION AND PURGING	16/412342	23-Jan-2017				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70011-1	A	United States	CANNULA FOR MINIMIZING DILUTION OF DOSING DURING NITRIC OXIDE DELIVERY	14/095910	04-Dec-2013	9032959	19-May-2015	04-Dec-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70011-1	AC1	United States	CANNULA FOR MINIMIZING DILUTION OF DOSING DURING NITRIC OXIDE DELIVERY	14/706449	07-May-2015	10190783	20-Nov-2018	12-Nov-2036	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70011-1		United States	CANNULA FOR MINIMIZING DILUTION OF DOSING DURING NITRIC OXIDE DELIVERY	14/095548	04-Dec-2013	9795756	24-Oct-2017	24-Feb-2036	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70011-1	C1	United States	CANNULA FOR MINIMIZING DILUTION OF DOSING DURING NITRIC OXIDE DELIVERY	15/790300	23-Oct-2017				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70011-2		Eurasian Patent Organization	CANNULA FOR MINIMIZING DILUTION OF DOSING DURING NITRIC OXIDE DELIVERY	201690813	04-Dec-2013	030990	31-Oct-2016	04-Dec-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70011-2		Australia	CANNULA FOR MINIMIZING DILUTION OF DOSING DURING NITRIC OXIDE DELIVERY	2013355303	04-Dec-2013	2013355303	26-Mar-2018	04-Dec-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70011-2		China (People's Republic)	CANNULA FOR MINIMIZING DILUTION OF DOSING DURING NITRIC OXIDE DELIVERY	20138008828.4	04-Dec-2013	105073170	27-Mar-2018	04-Dec-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70011-2		Israel	CANNULA FOR MINIMIZING DILUTION OF DOSING DURING NITRIC OXIDE DELIVERY	239099	04-Dec-2013	239099	29-Feb-2020	04-Dec-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70011-2		Japan	CANNULA FOR MINIMIZING DILUTION OF DOSING DURING NITRIC OXIDE DELIVERY	2015-545524	04-Dec-2013	5673830	23-Aug-2019	04-Dec-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70011-2		Mexico	CANNULA FOR MINIMIZING DILUTION OF DOSING DURING NITRIC OXIDE DELIVERY	MX/a/2015/007017	04-Dec-2013	360652	12-Nov-2018	04-Dec-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70011-2		South Africa	CANNULA FOR MINIMIZING DILUTION OF DOSING DURING NITRIC OXIDE DELIVERY	2015/04644	04-Dec-2013	2015/04644	28-Nov-2018	04-Dec-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70011-2		United States	CANNULA FOR MINIMIZING DILUTION OF DOSING DURING NITRIC OXIDE DELIVERY	14/098629	04-Dec-2013	8770199	08-Jul-2014	04-Dec-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70011-2		Hong Kong	CANNULA FOR MINIMIZING DILUTION OF DOSING DURING NITRIC OXIDE DELIVERY	16102928.6	04-Dec-2013	1214982	19-Oct-2018	04-Dec-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70011-2	C2	United States	CANNULA FOR MINIMIZING DILUTION OF DOSING DURING NITRIC OXIDE DELIVERY	15/412346	23-Jan-2017	10566082	11-Feb-2020	04-Dec-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70011-2		Albania	CANNULA FOR MINIMIZING DILUTION OF DOSING DURING NITRIC OXIDE DELIVERY	13812306.2	04-Dec-2013	2928531	16-Feb-2017	04-Dec-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70011-2		Austria	CANNULA FOR MINIMIZING DILUTION OF DOSING DURING NITRIC OXIDE DELIVERY	13812306.2	04-Dec-2013	2928531	16-Feb-2017	04-Dec-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70011-2		Belgium	CANNULA FOR MINIMIZING DILUTION OF DOSING DURING NITRIC OXIDE DELIVERY	13812306.2	04-Dec-2013	2928531	16-Feb-2017	04-Dec-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY

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H-IK-70011-2	D1	Australia	CANNULA FOR MINIMIZING DILUTION OF DOSING DURING NITRIC OXIDE DELIVERY	2017265042	04-Dec-2013	2017265042	14-May-2020	04-Dec-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70011-2	D1	Belgium	CANNULA FOR MINIMIZING DILUTION OF DOSING DURING NITRIC OXIDE DELIVERY	16204677.5	04-Dec-2013	3173116	20-Nov-2019	04-Dec-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70011-2	D1	Switzerland	CANNULA FOR MINIMIZING DILUTION OF DOSING DURING NITRIC OXIDE DELIVERY	16204677.5	04-Dec-2013	3173116	20-Nov-2019	04-Dec-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70011-2	D1	Germany	CANNULA FOR MINIMIZING DILUTION OF DOSING DURING NITRIC OXIDE DELIVERY	16204677.5	04-Dec-2013	3173116	20-Nov-2019	04-Dec-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70011-2	D1	Denmark	CANNULA FOR MINIMIZING DILUTION OF DOSING DURING NITRIC OXIDE DELIVERY	16204677.5	04-Dec-2013	3173116	20-Nov-2019	04-Dec-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70011-2	D1	Spain	CANNULA FOR MINIMIZING DILUTION OF DOSING DURING NITRIC OXIDE DELIVERY	16204677.5	04-Dec-2013	3173116	20-Nov-2019	04-Dec-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70011-2	D1	France	CANNULA FOR MINIMIZING DILUTION OF DOSING DURING NITRIC OXIDE DELIVERY	16204677.5	04-Dec-2013	3173116	20-Nov-2019	04-Dec-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70011-2	D1	United Kingdom	CANNULA FOR MINIMIZING DILUTION OF DOSING DURING NITRIC OXIDE DELIVERY	16204677.5	04-Dec-2013	3173116	20-Nov-2019	04-Dec-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70011-2	D1	Ireland	CANNULA FOR MINIMIZING DILUTION OF DOSING DURING NITRIC OXIDE DELIVERY	16204677.5	04-Dec-2013	3173116	20-Nov-2019	04-Dec-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70011-2	D1	Italy	CANNULA FOR MINIMIZING DILUTION OF DOSING DURING NITRIC OXIDE DELIVERY	16204677.5	04-Dec-2013	3173116	20-Nov-2019	04-Dec-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70011-2	D1	Liechtenstein	CANNULA FOR MINIMIZING DILUTION OF DOSING DURING NITRIC OXIDE DELIVERY	16204677.5	04-Dec-2013	3173116	20-Nov-2019	04-Dec-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70011-2	D1	Luxembourg	CANNULA FOR MINIMIZING DILUTION OF DOSING DURING NITRIC OXIDE DELIVERY	16204677.5	04-Dec-2013	3173116	20-Nov-2019	04-Dec-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70011-2	D1	Monaco	CANNULA FOR MINIMIZING DILUTION OF DOSING DURING NITRIC OXIDE DELIVERY	16204677.5	04-Dec-2013	3173116	20-Nov-2019	04-Dec-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70011-2	D1	Netherlands	CANNULA FOR MINIMIZING DILUTION OF DOSING DURING NITRIC OXIDE DELIVERY	16204677.5	04-Dec-2013	3173116	20-Nov-2019	04-Dec-2033	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70011-2	C1	United States	CANNULA FOR MINIMIZING DILUTION OF DOSING DURING NITRIC OXIDE DELIVERY	14/212003	23-Jun-2014	9550039	27-Jan-2017	12-Aug-2034	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70011-2		Brazil	CANNULA FOR MINIMIZING DILUTION OF DOSING DURING NITRIC OXIDE DELIVERY	BR112016013095-0	04-Dec-2013				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70011-2		Canada	CANNULA FOR MINIMIZING DILUTION OF DOSING DURING NITRIC OXIDE DELIVERY	2892398	04-Dec-2013				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70011-2		India	CANNULA FOR MINIMIZING DILUTION OF DOSING DURING NITRIC OXIDE DELIVERY	1697/MUMNP/2015	04-Dec-2013				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70011-2		Korea, Republic of	CANNULA FOR MINIMIZING DILUTION OF DOSING DURING NITRIC OXIDE DELIVERY	10-2015-7017403	04-Dec-2013				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70011-2	D1	Hong Kong	CANNULA FOR MINIMIZING DILUTION OF DOSING DURING NITRIC OXIDE DELIVERY	17112412.6	04-Dec-2013				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70011-2	d1	China (People's Republic)	CANNULA FOR MINIMIZING DILUTION OF DOSING DURING NITRIC OXIDE DELIVERY	201810150325.6	04-Dec-2013				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70011-2	D2	China (People's Republic)	CANNULA FOR MINIMIZING DILUTION OF DOSING DURING NITRIC OXIDE DELIVERY	201810150324.1	04-Dec-2013				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70011-2	D1	South Africa	Cannula for Minimizing Dilution of Dosing During Nitric Oxide Delivery	2018/04189	04-Dec-2013				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70011-2	D1	Eurasian Patent Organization	Cannula for Minimizing Dilution of Dosing During Nitric Oxide Delivery	201891346	04-Dec-2013				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70011-2	D1	Mexico	CANNULA FOR MINIMIZING DILUTION OF DOSING DURING NITRIC OXIDE DELIVERY	MX/a/2016/013629	04-Dec-2013				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70011-2	D1	Japan	CANNULA FOR MINIMIZING DILUTION OF DOSING DURING NITRIC OXIDE DELIVERY	2016-148918	04-Dec-2013				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70011-2	D1	Israel	CANNULA FOR MINIMIZING DILUTION OF DOSING DURING NITRIC OXIDE DELIVERY	270174	04-Dec-2013				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70011-2	D2	European Patent Convention	CANNULA FOR MINIMIZING DILUTION OF DOSING DURING NITRIC OXIDE DELIVERY	16208276.8	04-Feb-2013				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY

H-IK-70011-2	C3	United States	Cannula for Minimizing Dilution of Dosing During Nitric Oxide Delivery	16/765976	10-Feb-2020					Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70011-2	D2	Australia	Cannula for Minimizing Dilution of Dosing During Nitric Oxide Delivery	2020200087	04-Dec-2013					Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70011-2	D2	Israel	Cannula for Minimizing Dilution of Dosing During Nitric Oxide Delivery	277164	04-Dec-2013					Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70012		United States	THERAPEUTIC GAS DELIVERY DEVICE	29/455842	24-May-2013	D701963	01-Apr-2014	01-Apr-2028		Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70013		United States	THERAPEUTIC GAS DELIVERY DEVICE	29/464499	16-Aug-2013	D729936	19-May-2015	19-May-2029		Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70014		United States	SYSTEMS AND METHODS FOR PROVIDING A PULSE OF A THERAPEUTIC GAS WITH A DESIRED FLOW PROFILE TO MAXIMIZE THERAPEUTIC EFFECTIVENESS	14/896556	19-Oct-2015	10758703	01-Sep-2020	01-Jun-2039		Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-IK-70014	C1	United States	SYSTEMS AND METHODS FOR PROVIDING A PULSE OF A THERAPEUTIC GAS WITH A DESIRED FLOW PROFILE TO MAXIMIZE THERAPEUTIC EFFECTIVENESS	17/007903	31-Aug-2020					Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-MP-00254		Canada	METHOD FOR OBTAINING AQUEOUS FORMULATIONS OF OXIDATION-SENSITIVE ACTIVE PRINCIPLES	2415403	06-Jun-2001	2415403	24-May-2011	06-Jun-2021		Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-MP-00255		Canada	REDUCED DOSE INTRAVENOUS ACETAMINOPHEN	2705733	13-Nov-2006	2705733	03-Feb-2015	13-Nov-2028		Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-MP-00255		Japan	REDUCED DOSE INTRAVENOUS ACETAMINOPHEN	2010-534188	13-Nov-2006	5609750	08-Apr-2016	13-Nov-2028		Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-MP-00255	C1	United States	REDUCED DOSE INTRAVENOUS ACETAMINOPHEN	15/164056	15-Jun-2016	9610265	04-Apr-2017	13-Nov-2028		Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-MP-00255	C2	United States	REDUCED DOSE INTRAVENOUS ACETAMINOPHEN	15/436285	17-Feb-2017	9987238	05-Jun-2016	13-Nov-2028		Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-MP-00255	C3	United States	REDUCED DOSE INTRAVENOUS ACETAMINOPHEN	15/979154	14-May-2018	10383634	20-Aug-2018	13-Nov-2028		Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-MP-00255		United States	REDUCED DOSE INTRAVENOUS ACETAMINOPHEN	12/270796	13-Nov-2008	9399012	26-Jul-2016	11-Sep-2031		Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00017		Canada	SYSTEM AND APPARATUS FOR PROPORTIONING FLUID FLOW	2397111	10-Jan-2001	2397111	17-Dec-2013	10-Jan-2021		Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00017		Germany	SYSTEM AND APPARATUS FOR PROPORTIONING FLUID FLOW	01901918.1	10-Jan-2001	1250634	07-May-2014	10-Jan-2021		Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00017		Spain	SYSTEM AND APPARATUS FOR PROPORTIONING FLUID FLOW	01901918.1	10-Jan-2001	1250634	07-May-2014	10-Jan-2021		Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00017		France	SYSTEM AND APPARATUS FOR PROPORTIONING FLUID FLOW	01901918.1	10-Jan-2001	1250634	07-May-2014	10-Jan-2021		Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00017		United Kingdom	SYSTEM AND APPARATUS FOR PROPORTIONING FLUID FLOW	01901918.1	10-Jan-2001	1250634	07-May-2014	10-Jan-2021		Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00017		Italy	SYSTEM AND APPARATUS FOR PROPORTIONING FLUID FLOW	01901918.1	10-Jan-2001	1250634	07-May-2014	10-Jan-2021		Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00018		Australia	LOW EXTRACORPOREAL VOLUME TREATMENT SYSTEM	2001257096	19-Apr-2001	2001257096	19-Apr-2007	19-Apr-2021		Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00018		Canada	LOW EXTRACORPOREAL VOLUME TREATMENT SYSTEM	2406865	19-Apr-2001	2406865	23-Jun-2009	19-Apr-2021		Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00018		Japan	LOW EXTRACORPOREAL VOLUME TREATMENT SYSTEM	2001-578018	19-Apr-2001	4679440	09-Dec-2011	19-Apr-2021		Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00018		Korea, Republic of	LOW EXTRACORPOREAL VOLUME TREATMENT SYSTEM	10-2002-7013977	19-Apr-2001	10-0800994	29-Jan-2008	19-Apr-2021		Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00018		Austria	LOW EXTRACORPOREAL VOLUME TREATMENT SYSTEM	01930574.7	19-Apr-2001	1276521	18-Jan-2012	19-Apr-2021		Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00018		Germany	LOW EXTRACORPOREAL VOLUME TREATMENT SYSTEM	01930574.7	19-Apr-2001	1276521	16-Jan-2012	19-Apr-2021		Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00018		France	LOW EXTRACORPOREAL VOLUME TREATMENT SYSTEM	01930574.7	19-Apr-2001	1276521	18-Jan-2012	19-Apr-2021		Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00018		United Kingdom	LOW EXTRACORPOREAL VOLUME TREATMENT SYSTEM	01930574.7	19-Apr-2001	1276521	16-Jan-2012	19-Apr-2021		Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY

H-TK-00018		Italy	LOW EXTRACORPOREAL VOLUME TREATMENT SYSTEM	01930574.7	19-Apr-2001	1278621	18-Jan-2012	19-Apr-2021	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	D.1	New Zealand	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	20030544491	28-Feb-2003	544491	11-Oct-2007	02-Feb-2023	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	D.2	New Zealand	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	20030552287	28-Feb-2003	552287	11-Dec-2008	02-Feb-2023	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	C.4	United States	METHOD FOR COLLECTING A DESIRED BLOOD COMPONENT AND PERFORMING A PHOTOPHERESIS TREATMENT	15/491835	19-Apr-2017	10566055	11-Feb-2020	27-Feb-2023	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019		Australia	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	2003219935	28-Feb-2003	2003219935	06-Aug-2009	28-Feb-2023	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019		Brazil	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	PI0308164-8	28-Feb-2003	PI0308164-8	11-Dec-2012	28-Feb-2023	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019		Canada	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	2478187	28-Feb-2003	2478187	19-Jul-2011	28-Feb-2023	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019		Japan	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	2003-574251	28-Feb-2003	4519467	28-May-2010	28-Feb-2023	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019		Mexico	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	PA/a/2004/008548	28-Feb-2003	254270	08-Feb-2009	28-Feb-2023	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019		New Zealand	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	20030534857	28-Feb-2003	534897	11-Jan-2007	28-Feb-2023	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019		Germany	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	03716220.3	28-Feb-2003	1483000	23-Apr-2014	28-Feb-2023	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019		Spain	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	03716220.3	28-Feb-2003	1483000	23-Apr-2014	28-Feb-2023	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019		France	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	03716220.3	28-Feb-2003	1483000	23-Apr-2014	28-Feb-2023	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019		United Kingdom	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	03716220.3	28-Feb-2003	1483000	23-Apr-2014	28-Feb-2023	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019		Italy	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	03716220.3	28-Feb-2003	1483000	23-Apr-2014	28-Feb-2023	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	D.1	Mexico	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	MX/a/2007/013622	28-Feb-2003	311620	22-Jul-2013	28-Feb-2023	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	D.1	Singapore	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	2008003287	27-Aug-2004	139746	31-May-2013	03-Sep-2023	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	D.2	Singapore	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	2007084478	27-Aug-2004	136137	31-Dec-2012	03-Sep-2023	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	D.3	Germany	BLOOD SEPARATION APPARATUS AND METHOD OF USING THE SAME	08075817.0	02-Sep-2004	002004052952.8	20-Jun-2018	03-Sep-2023	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	D.3	United Kingdom	BLOOD SEPARATION APPARATUS AND METHOD OF USING THE SAME	08075817.0	02-Sep-2004	2008676	20-Jun-2018	03-Sep-2023	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	D.3	France	BLOOD SEPARATION APPARATUS AND METHOD OF USING THE SAME	08075817.0	02-Sep-2004	2008676	20-Jun-2018	03-Sep-2023	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	D.3	Spain	BLOOD SEPARATION APPARATUS AND METHOD OF USING THE SAME	08075817.0	02-Sep-2004	2008676	20-Jun-2018	03-Sep-2023	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	D.3	Italy	BLOOD SEPARATION APPARATUS AND METHOD OF USING THE SAME	08075817.0	02-Sep-2004	2008676	20-Jun-2018	03-Sep-2023	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.1	United States	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	10654742	03-Sep-2003	7211037	01-May-2007	01-Mar-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	D.3	United States	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	11/407271	19-Apr-2006	7503899	17-Mar-2009	11-Jun-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	C.1	United States	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	12/795308	07-Jun-2010	9238097	19-Jan-2016	03-Jul-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.2	Israel	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	183704	24-Aug-2004	163704	13-Aug-2005	24-Aug-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.1	Israel	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	163706	24-Aug-2004	163706	27-Jun-2013	24-Aug-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY

H-TK-00019	T.2	Singapore	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	200404770	27-Aug-2004	109585	31-Dec-2008	27-Aug-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.1	Singapore	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	2004048181	27-Aug-2004	109595	30-Sep-2008	27-Aug-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.3	Singapore	CASSETTE FOR CONTROLLING MOVEMENT OF BLOOD AND SEPARATED BLOOD COMPONENTS	2004047787	27-Aug-2004	109589	27-Feb-2009	27-Aug-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.3	Canada	BLOOD SEPARATION APPARATUS AND METHOD OF USING SAME	2479707	31-Aug-2004	2479707	19-Feb-2013	31-Aug-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019		United States	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	10375629	27-Feb-2003	7188230	06-Mar-2007	01-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.2	Austria	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	04255338.8	02-Sep-2004	1512421	24-Dec-2014	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.2	Belgium	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	04255338.8	02-Sep-2004	1512421	24-Dec-2014	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.2	Bulgaria	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	04255338.8	02-Sep-2004	1512421	24-Dec-2014	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.2	Switzerland	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	04255338.8	02-Sep-2004	1512421	24-Dec-2014	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.2	Cyprus, Republic of	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	04255338.8	02-Sep-2004	1512421	24-Dec-2014	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.2	Czech Republic	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	04255338.8	02-Sep-2004	1512421	24-Dec-2014	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.2	Germany	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	04255338.8	02-Sep-2004	1512421	24-Dec-2014	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.2	Denmark	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	04255338.8	02-Sep-2004	1512421	24-Dec-2014	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.2	Estonia	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	04255338.8	02-Sep-2004	1512421	24-Dec-2014	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.2	Finland	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	04255338.8	02-Sep-2004	1512421	24-Dec-2014	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.2	France	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	04255338.8	02-Sep-2004	1512421	24-Dec-2014	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.2	United Kingdom	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	04255338.8	02-Sep-2004	1512421	24-Dec-2014	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.2	Greece	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	04255338.8	02-Sep-2004	1512421	24-Dec-2014	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.2	Hungary	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	04255338.8	02-Sep-2004	1512421	24-Dec-2014	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.2	Ireland	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	04255338.8	02-Sep-2004	1512421	24-Dec-2014	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.2	Italy	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	04255338.8	02-Sep-2004	1512421	24-Dec-2014	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.2	Luxembourg	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	04255338.8	02-Sep-2004	1512421	24-Dec-2014	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.2	Monaco	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	04255338.8	02-Sep-2004	1512421	24-Dec-2014	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.2	Poland	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	04255338.8	02-Sep-2004	1512421	24-Dec-2014	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.2	Portugal	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	04255338.8	02-Sep-2004	1512421	24-Dec-2014	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.2	Romania	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	04255338.8	02-Sep-2004	1512421	24-Dec-2014	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.2	Sweden	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	04255338.8	02-Sep-2004	1512421	24-Dec-2014	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.2	Slovenia	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	04255338.8	02-Sep-2004	1512421	24-Dec-2014	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY

H-TK-00019	T.2	Slovakia	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	04255338.8	02-Sep-2004	1512421	24-Dec-2014	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.2	Turkey	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	04255338.8	02-Sep-2004	1512421	24-Dec-2014	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.2	Japan	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	2004-256051	02-Sep-2004	4519683	28-May-2010	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.1	Switzerland	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	04255326.3	02-Sep-2004	1512419	15-Nov-2008	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.1	Germany	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	04255326.3	02-Sep-2004	1512419	15-Nov-2008	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.1	France	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	04255326.3	02-Sep-2004	1512419	15-Nov-2008	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.1	United Kingdom	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	04255326.3	02-Sep-2004	1512419	15-Nov-2008	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.1	Italy	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	04255326.3	02-Sep-2004	1512419	15-Nov-2008	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.1	Japan	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	2004-256104	02-Sep-2004	4406347	13-Nov-2009	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	D.2	United Kingdom	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	06076670.6	02-Sep-2004	1736198	18-Feb-2009	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.3	Austria	CASSETTE FOR CONTROLLING MOVEMENT OF BLOOD AND SEPARATED BLOOD COMPONENTS	04255327.1	02-Sep-2004	1512420	19-Nov-2008	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.3	Switzerland	CASSETTE FOR CONTROLLING MOVEMENT OF BLOOD AND SEPARATED BLOOD COMPONENTS	04255327.1	02-Sep-2004	1512420	19-Nov-2008	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.3	Germany	CASSETTE FOR CONTROLLING MOVEMENT OF BLOOD AND SEPARATED BLOOD COMPONENTS	04255327.1	02-Sep-2004	1512420	19-Nov-2008	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.3	France	CASSETTE FOR CONTROLLING MOVEMENT OF BLOOD AND SEPARATED BLOOD COMPONENTS	04255327.1	02-Sep-2004	1512420	19-Nov-2008	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.3	Spain	CASSETTE FOR CONTROLLING MOVEMENT OF BLOOD AND SEPARATED BLOOD COMPONENTS	04255327.1	02-Sep-2004	1512420	19-Nov-2008	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.3	United Kingdom	CASSETTE FOR CONTROLLING MOVEMENT OF BLOOD AND SEPARATED BLOOD COMPONENTS	04255327.1	02-Sep-2004	1512420	19-Nov-2008	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.3	Italy	CASSETTE FOR CONTROLLING MOVEMENT OF BLOOD AND SEPARATED BLOOD COMPONENTS	04255327.1	02-Sep-2004	1512420	19-Nov-2008	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.3	Netherlands	CASSETTE FOR CONTROLLING MOVEMENT OF BLOOD AND SEPARATED BLOOD COMPONENTS	04255327.1	02-Sep-2004	1512420	19-Nov-2008	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.3	Turkey	CASSETTE FOR CONTROLLING MOVEMENT OF BLOOD AND SEPARATED BLOOD COMPONENTS	04255327.1	02-Sep-2004	1512420	19-Nov-2008	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.3	Japan	CASSETTE FOR CONTROLLING MOVEMENT OF BLOOD AND SEPARATED BLOOD COMPONENTS	2004-256074	02-Sep-2004	4391353	16-Oct-2009	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.3	Hong Kong	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	09105790.2	02-Sep-2004	1126249	25-Jan-2019	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.2	China (People's Republic)	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	200410079499.6	03-Sep-2004	200410079499.6	03-Nov-2010	03-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.2	Hong Kong	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	6100441.9	03-Sep-2004	1080403	29-Jul-2011	03-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.2	Canada	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	2480570	03-Sep-2004	2480570	23-Nov-2013	03-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.1	Canada	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	2480236	03-Sep-2004	2480236	12-Nov-2013	03-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.1	China (People's Republic)	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	200410085099.8	03-Sep-2004	200410085099.8	03-Sep-2004	03-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	T.1	Hong Kong	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	060100892.5	03-Sep-2004	1080778	19-Jun-2009	03-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	D.1	United States	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	11/613021	01-Dec-2006	7850634	14-Dec-2010	13-Jan-2025	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY

H-TK-00019	T.2	United States	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	10/954603	03-Sep-2003	7479123	20-Jan-2009	27-Nov-2025	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	D.2	United States	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	11/408988	19-Apr-2006	7914477	29-Mar-2011	16-Feb-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	D.2	Belgium	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	06076670.6	02-Sep-2004	1736188	18-Feb-2009	18-Feb-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	D.2	Germany	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	06076670.6	02-Sep-2004	1736188	18-Feb-2009	18-Feb-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	D.2	Spain	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	06076670.6	02-Sep-2004	1736188	18-Feb-2009	18-Feb-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	D.2	France	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	06076670.6	02-Sep-2004	1736188	18-Feb-2009	18-Feb-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	D.2	Netherlands	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	06076670.6	02-Sep-2004	1736188	18-Feb-2009	18-Feb-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	D.2	Turkey	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	06076670.6	02-Sep-2004	1736188	18-Feb-2009	18-Feb-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	D.2	Mexico	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	MX/a/2012/012610	28-Feb-2003				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00019	D.1	European Patent Convention	METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS	14188885.6	02-Sep-2004				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00021		New Zealand	IRRADIATION CHAMBER	20030530158	15-Dec-2003	530158	09-Mar-2006	15-Dec-2023	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00021		Canada	IRRADIATION CHAMBER	2453749	19-Dec-2003	2453749	25-Oct-2011	19-Dec-2023	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00021		Japan	IRRADIATION CHAMBER	2003-422891	19-Dec-2003	4615211	29-Oct-2010	19-Dec-2023	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00021		Taiwan	IRRADIATION CHAMBER	082136084	19-Dec-2003	1328492	01-Sep-2010	19-Dec-2023	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00021		Austria	IRRADIATION CHAMBER	03258043.3	19-Dec-2003	1433492	29-Oct-2010	19-Dec-2023	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00021		Switzerland	IRRADIATION CHAMBER	03258043.3	19-Dec-2003	1433492	29-Oct-2010	19-Dec-2023	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00021		Germany	IRRADIATION CHAMBER	03258043.3	19-Dec-2003	1433492	29-Oct-2010	19-Dec-2023	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00021		France	IRRADIATION CHAMBER	03258043.3	19-Dec-2003	1433492	29-Oct-2010	19-Dec-2023	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00021		United Kingdom	IRRADIATION CHAMBER	03258043.3	19-Dec-2003	1433492	29-Oct-2010	19-Dec-2023	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00021		Italy	IRRADIATION CHAMBER	03258043.3	19-Dec-2003	1433492	29-Oct-2010	19-Dec-2023	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00021		Netherlands	IRRADIATION CHAMBER	03258043.3	19-Dec-2003	1433492	29-Oct-2010	19-Dec-2023	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00023		United States	CASSETTE FOR CONTROLLING MOVEMENT OF BLOOD AND SEPARATED BLOOD COMPONENTS	11/444721	01-Jun-2006	7485285	18-Dec-2008	01-Jun-2028	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00024	D.1	Canada	CONTROL SYSTEM FOR DRIVING FLUIDS THROUGH AN EXTRACORPOREAL BLOOD CIRCUIT	2743989	31-Aug-2004	2743989	22-Jun-2011	03-Sep-2023	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00024		Israel	CONTROL SYSTEM FOR DRIVING FLUIDS THROUGH AN EXTRACORPOREAL BLOOD CIRCUIT	199501	24-Aug-2004	199501	30-Jan-2016	24-Aug-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00024		Canada	CONTROL SYSTEM FOR DRIVING FLUIDS THROUGH AN EXTRACORPOREAL BLOOD CIRCUIT	2479886	31-Aug-2004	2479886	09-Apr-2003	31-Aug-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00024		Austria	CONTROL SYSTEM FOR DRIVING FLUIDS THROUGH AN EXTRACORPOREAL BLOOD CIRCUIT	04255325.5	02-Sep-2004	1512418	28-Oct-2009	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00024		Belgium	CONTROL SYSTEM FOR DRIVING FLUIDS THROUGH AN EXTRACORPOREAL BLOOD CIRCUIT	04255325.5	02-Sep-2004	1512418	28-Oct-2009	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00024		Switzerland	CONTROL SYSTEM FOR DRIVING FLUIDS THROUGH AN EXTRACORPOREAL BLOOD CIRCUIT	04255325.5	02-Sep-2004	1512418	28-Oct-2009	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY

H-TK-00024		Germany	CONTROL SYSTEM FOR DRIVING FLUIDS THROUGH AN EXTRACORPOREAL BLOOD CIRCUIT	04255325.5	02-Sep-2004	1512418	28-Oct-2009	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00024		Spain	CONTROL SYSTEM FOR DRIVING FLUIDS THROUGH AN EXTRACORPOREAL BLOOD CIRCUIT	04255325.5	02-Sep-2004	1512418	28-Oct-2009	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00024		France	CONTROL SYSTEM FOR DRIVING FLUIDS THROUGH AN EXTRACORPOREAL BLOOD CIRCUIT	04255325.5	02-Sep-2004	1512418	28-Oct-2009	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00024		United Kingdom	CONTROL SYSTEM FOR DRIVING FLUIDS THROUGH AN EXTRACORPOREAL BLOOD CIRCUIT	04255325.5	02-Sep-2004	1512418	28-Oct-2009	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00024		Greece	CONTROL SYSTEM FOR DRIVING FLUIDS THROUGH AN EXTRACORPOREAL BLOOD CIRCUIT	04255325.5	02-Sep-2004	1512418	28-Oct-2009	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00024		Ireland	CONTROL SYSTEM FOR DRIVING FLUIDS THROUGH AN EXTRACORPOREAL BLOOD CIRCUIT	04255325.5	02-Sep-2004	1512418	28-Oct-2009	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00024		Italy	CONTROL SYSTEM FOR DRIVING FLUIDS THROUGH AN EXTRACORPOREAL BLOOD CIRCUIT	04255325.5	02-Sep-2004	1512418	28-Oct-2009	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00024		Netherlands	CONTROL SYSTEM FOR DRIVING FLUIDS THROUGH AN EXTRACORPOREAL BLOOD CIRCUIT	04255325.5	02-Sep-2004	1512418	28-Oct-2009	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00024		Portugal	CONTROL SYSTEM FOR DRIVING FLUIDS THROUGH AN EXTRACORPOREAL BLOOD CIRCUIT	04255325.5	02-Sep-2004	1512418	28-Oct-2009	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00024		Turkey	CONTROL SYSTEM FOR DRIVING FLUIDS THROUGH AN EXTRACORPOREAL BLOOD CIRCUIT	04255325.5	02-Sep-2004	1512418	28-Oct-2009	02-Sep-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00024	OPP	European Patent Convention	CONTROL SYSTEM FOR DRIVING FLUIDS THROUGH AN EXTRACORPOREAL BLOOD CIRCUIT	04255325.5	02-Sep-2004	1512418	28-Oct-2009	02-Sep-2024	Opposed	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00025		Australia	EXTRACORPOREAL PHOTOPHERESIS IN COMBINATION WITH ANTI-TNF TREATMENT	2004237844	10-Dec-2004	2004237844	12-May-2011	10-Dec-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00025		Canada	EXTRACORPOREAL PHOTOPHERESIS IN COMBINATION WITH ANTI-TNF TREATMENT	2490218	16-Dec-2004	2490218	23-Sep-2014	15-Dec-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00025		New Zealand	EXTRACORPOREAL PHOTOPHERESIS IN COMBINATION WITH ANTI-TNF TREATMENT	20040537382	22-Dec-2004	537382	08-Feb-2007	22-Dec-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00025		Taiwan	EXTRACORPOREAL PHOTOPHERESIS IN COMBINATION WITH ANTI-TNF TREATMENT	93139924	22-Dec-2004	1419721	21-Dec-2013	22-Dec-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00025		Austria	EXTRACORPOREAL PHOTOPHERESIS IN COMBINATION WITH ANTI-TNF TREATMENT	04258069.6	22-Dec-2004	1550454	09-Mar-2011	22-Dec-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00025		Belgium	EXTRACORPOREAL PHOTOPHERESIS IN COMBINATION WITH ANTI-TNF TREATMENT	04258069.6	22-Dec-2004	1550454	09-Mar-2011	22-Dec-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00025		Switzerland	EXTRACORPOREAL PHOTOPHERESIS IN COMBINATION WITH ANTI-TNF TREATMENT	04258069.6	22-Dec-2004	1550454	09-Mar-2011	22-Dec-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00025		Germany	EXTRACORPOREAL PHOTOPHERESIS IN COMBINATION WITH ANTI-TNF TREATMENT	04258069.6	22-Dec-2004	1550454	09-Mar-2011	22-Dec-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00025		Denmark	EXTRACORPOREAL PHOTOPHERESIS IN COMBINATION WITH ANTI-TNF TREATMENT	04258069.6	22-Dec-2004	1550454	09-Mar-2011	22-Dec-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00025		Spain	EXTRACORPOREAL PHOTOPHERESIS IN COMBINATION WITH ANTI-TNF TREATMENT	04258069.6	22-Dec-2004	1550454	09-Mar-2011	22-Dec-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00025		France	EXTRACORPOREAL PHOTOPHERESIS IN COMBINATION WITH ANTI-TNF TREATMENT	04258069.6	22-Dec-2004	1550454	09-Mar-2011	22-Dec-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00025		United Kingdom	EXTRACORPOREAL PHOTOPHERESIS IN COMBINATION WITH ANTI-TNF TREATMENT	04258069.6	22-Dec-2004	1550454	09-Mar-2011	22-Dec-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00025		Greece	EXTRACORPOREAL PHOTOPHERESIS IN COMBINATION WITH ANTI-TNF TREATMENT	04258069.6	22-Dec-2004	1550454	09-Mar-2011	22-Dec-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00025		Ireland	EXTRACORPOREAL PHOTOPHERESIS IN COMBINATION WITH ANTI-TNF TREATMENT	04258069.6	22-Dec-2004	1550454	09-Mar-2011	22-Dec-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00025		Italy	EXTRACORPOREAL PHOTOPHERESIS IN COMBINATION WITH ANTI-TNF TREATMENT	04258069.6	22-Dec-2004	1550454	09-Mar-2011	22-Dec-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00025		Turkey	EXTRACORPOREAL PHOTOPHERESIS IN COMBINATION WITH ANTI-TNF TREATMENT	04258069.6	22-Dec-2004	1550454	09-Mar-2011	22-Dec-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00025		Portugal	EXTRACORPOREAL PHOTOPHERESIS IN COMBINATION WITH ANTI-TNF TREATMENT	04258069.6	22-Dec-2004	1550454	09-Mar-2011	22-Dec-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY

H-TK-00025		Netherlands	EXTRACORPOREAL PHOTOPHERESIS IN COMBINATION WITH ANTI-TNF TREATMENT	04256069.6	22-Dec-2004	1550454	09-Mar-2011	22-Dec-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00025		Korea, Republic of	EXTRACORPOREAL PHOTOPHERESIS IN COMBINATION WITH ANTI-TNF TREATMENT	10-2004-0110878	23-Dec-2004	10-1118481	14-Feb-2012	23-Dec-2024	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00026		United States	METHOD AND APPARATUS FOR COLLECTING A BLOOD COMPONENT AND PERFORMING A PHOTOPHERESIS TREATMENT	11/394092	15-Dec-2005	7476209	13-Jan-2009	16-Dec-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00026		New Zealand	METHOD AND APPARATUS FOR COLLECTING A BLOOD COMPONENT AND PERFORMING A PHOTOPHERESIS TREATMENT	555916	19-Dec-2005	555916	12-Feb-2009	18-Dec-2025	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00026		Australia	METHOD AND APPARATUS FOR COLLECTING A BLOOD COMPONENT AND PERFORMING A PHOTOPHERESIS TREATMENT	2005249400	20-Dec-2005	2005248400	22-Dec-2011	20-Dec-2025	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00026		Canada	METHOD AND APPARATUS FOR COLLECTING A BLOOD COMPONENT AND PERFORMING A PHOTOPHERESIS TREATMENT	2530958	20-Dec-2005	2530958	24-Nov-2014	20-Dec-2025	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00026		Japan	METHOD AND APPARATUS FOR COLLECTING A BLOOD COMPONENT AND PERFORMING A PHOTOPHERESIS TREATMENT	2005386814	20-Dec-2005	4907188	20-Jan-2012	20-Dec-2025	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00026		Taiwan	METHOD AND APPARATUS FOR COLLECTING A BLOOD COMPONENT AND PERFORMING A PHOTOPHERESIS TREATMENT	09145189	20-Dec-2005	1373348	01-Oct-2012	20-Dec-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00026		Austria	METHOD AND APPARATUS FOR COLLECTING A BLOOD COMPONENT AND PERFORMING A PHOTOPHERESIS TREATMENT	05257861.4	20-Dec-2005	1674120	19-Aug-2009	20-Dec-2025	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00026		Belgium	METHOD AND APPARATUS FOR COLLECTING A BLOOD COMPONENT AND PERFORMING A PHOTOPHERESIS TREATMENT	05257861.4	20-Dec-2005	1674120	19-Aug-2009	20-Dec-2025	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00026		Switzerland	METHOD AND APPARATUS FOR COLLECTING A BLOOD COMPONENT AND PERFORMING A PHOTOPHERESIS TREATMENT	05257861.4	20-Dec-2005	1674120	19-Aug-2009	20-Dec-2025	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00026		Germany	METHOD AND APPARATUS FOR COLLECTING A BLOOD COMPONENT AND PERFORMING A PHOTOPHERESIS TREATMENT	05257861.4	20-Dec-2005	1674120	19-Aug-2009	20-Dec-2025	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00026		Spain	METHOD AND APPARATUS FOR COLLECTING A BLOOD COMPONENT AND PERFORMING A PHOTOPHERESIS TREATMENT	05257861.4	20-Dec-2005	1674120	19-Aug-2009	20-Dec-2025	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00026		France	METHOD AND APPARATUS FOR COLLECTING A BLOOD COMPONENT AND PERFORMING A PHOTOPHERESIS TREATMENT	05257861.4	20-Dec-2005	1674120	19-Aug-2009	20-Dec-2025	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00026		United Kingdom	METHOD AND APPARATUS FOR COLLECTING A BLOOD COMPONENT AND PERFORMING A PHOTOPHERESIS TREATMENT	05257861.4	20-Dec-2005	1674120	19-Aug-2009	20-Dec-2025	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00026		Ireland	METHOD AND APPARATUS FOR COLLECTING A BLOOD COMPONENT AND PERFORMING A PHOTOPHERESIS TREATMENT	05257861.4	20-Dec-2005	1674120	19-Aug-2009	20-Dec-2025	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00026		Italy	METHOD AND APPARATUS FOR COLLECTING A BLOOD COMPONENT AND PERFORMING A PHOTOPHERESIS TREATMENT	05257861.4	20-Dec-2005	1674120	19-Aug-2009	20-Dec-2025	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00026		Portugal	METHOD AND APPARATUS FOR COLLECTING A BLOOD COMPONENT AND PERFORMING A PHOTOPHERESIS TREATMENT	05257861.4	20-Dec-2005	1674120	19-Aug-2009	20-Dec-2025	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00026		Netherlands	METHOD AND APPARATUS FOR COLLECTING A BLOOD COMPONENT AND PERFORMING A PHOTOPHERESIS TREATMENT	05257861.4	20-Dec-2005	1674120	19-Aug-2009	20-Dec-2025	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00026		Turkey	METHOD AND APPARATUS FOR COLLECTING A BLOOD COMPONENT AND PERFORMING A PHOTOPHERESIS TREATMENT	05257861.4	20-Dec-2005	1674120	19-Aug-2009	20-Dec-2025	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00026		Korea, Republic of	METHOD AND APPARATUS FOR COLLECTING A BLOOD COMPONENT AND PERFORMING A PHOTOPHERESIS TREATMENT	10-2005-0127361	21-Dec-2005	10-1312531	23-Sep-2013	21-Dec-2025	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00027	D1	United States	PHOTOTHERAPY COMPOSITIONS AND METHODS	13/243103	23-Sep-2011	8481008	09-Jul-2013	19-Dec-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00027	D1	New Zealand	PHOTOTHERAPY COMPOSITIONS AND METHODS	20050572334	19-Dec-2005	572334	10-Jun-2010	19-Dec-2025	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00027		Australia	PHOTOTHERAPY COMPOSITIONS AND METHODS	2005245876	20-Dec-2005	2005245876	20-Oct-2011	20-Dec-2025	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00027		Canada	PHOTOTHERAPY COMPOSITIONS AND METHODS	2530963	20-Dec-2005	2530963	17-Dec-2013	20-Dec-2025	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00027		Japan	PHOTOTHERAPY COMPOSITIONS AND METHODS	2005-385589	21-Dec-2005	5255181	28-Apr-2013	21-Dec-2025	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00027		Taiwan	PHOTOTHERAPY COMPOSITIONS AND METHODS	094145427	21-Dec-2005	1436788	11-May-2014	21-Dec-2025	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00027		Germany	PHOTOTHERAPY COMPOSITIONS AND METHODS	05258014.9	22-Dec-2005	1674085	20-Aug-2014	22-Dec-2025	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY

H-TK-00027		Spain	PHOTOTHERAPY COMPOSITIONS AND METHODS	05256014.9	22-Dec-2005	1674095	20-Aug-2014	22-Dec-2025	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00027		France	PHOTOTHERAPY COMPOSITIONS AND METHODS	05256014.9	22-Dec-2005	1674095	20-Aug-2014	22-Dec-2025	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00027		United Kingdom	PHOTOTHERAPY COMPOSITIONS AND METHODS	05268014.9	22-Dec-2005	1674095	20-Aug-2014	22-Dec-2025	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00027		Hong Kong	PHOTOTHERAPY COMPOSITIONS AND METHODS	20960114166	22-Dec-2005	1093431	10-Jul-2015	22-Dec-2025	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00027		Italy	PHOTOTHERAPY COMPOSITIONS AND METHODS	05258014.9	22-Dec-2005	1674095	20-Aug-2014	22-Dec-2025	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00027		Korea, Republic of	PHOTOTHERAPY COMPOSITIONS AND METHODS	10-2013-0147128	22-Dec-2005	10-1560187	07-Oct-2015	22-Dec-2025	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00027		United States	PHOTOTHERAPY COMPOSITIONS AND METHODS	11/311714	18-Dec-2005	8057785	15-Nov-2011	22-Nov-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00027		New Zealand	PHOTOTHERAPY COMPOSITIONS AND METHODS	20050544247	19-Dec-2015	544247	11-Oct-2007	19-Dec-2035	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00028		China (People's Republic)	USE OF APOPTOTIC CELLS EX VIVO TO GENERATE REGULATORY T CELLS	200890049862.7	02-Nov-2006	ZL200680049862.7	27-May-2015	02-Nov-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00028	N	United States	USE OF APOPTOTIC CELLS EX VIVO TO GENERATE REGULATORY T CELLS	11/579319	14-Jul-2008	9169451	27-Oct-2015	02-Nov-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00028		Germany	USE OF APOPTOTIC CELLS EX VIVO TO GENERATE REGULATORY T CELLS	11179826.0	02-Nov-2006	602006052475.7	03-May-2017	02-Nov-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00028		Spain	USE OF APOPTOTIC CELLS EX VIVO TO GENERATE REGULATORY T CELLS	11179826.0	02-Nov-2006	2443922	03-May-2017	02-Nov-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00028		France	USE OF APOPTOTIC CELLS EX VIVO TO GENERATE REGULATORY T CELLS	11179826.0	02-Nov-2006	2443922	03-May-2017	02-Nov-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00028		United Kingdom	USE OF APOPTOTIC CELLS EX VIVO TO GENERATE REGULATORY T CELLS	11179826.0	02-Nov-2006	2443922	03-May-2017	02-Nov-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00028		Italy	USE OF APOPTOTIC CELLS EX VIVO TO GENERATE REGULATORY T CELLS	11179826.0	02-Nov-2006	2443922	03-May-2017	02-Nov-2026	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00028	D1	United States	USE OF APOPTOTIC CELLS EX VIVO TO GENERATE REGULATORY T CELLS	14/863274	23-Sep-2015	10138464	27-Nov-2018	27-May-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00028	D1	Brazil	USE OF APOPTOTIC CELLS EX VIVO TO GENERATE REGULATORY T CELLS	BR122018074426.0	02-Nov-2006	P112074426	10-Dec-2019	10-Dec-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00028		Brazil	USE OF APOPTOTIC CELLS EX VIVO TO GENERATE REGULATORY T CELLS	P10618139-2	02-Nov-2006				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00028	C1	United States	USE OF APOPTOTIC CELLS EX VIVO TO GENERATE REGULATORY T CELLS	18/185679	19-Oct-2018				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00029		Japan	METHODS AND REAGENTS FOR DETECTING SUSCEPTIBILITY TO GRAFT VERSUS HOST DISEASE OR TRANSPLANT RELATED MORTALITY	2006-509710	02-May-2007	5205550	21-Jun-2013	02-May-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00029		Mexico	METHODS AND REAGENTS FOR DETECTING SUSCEPTIBILITY TO GRAFT VERSUS HOST DISEASE OR TRANSPLANT RELATED MORTALITY	MX/a/A2006/014110	02-May-2007	321998	14-Jul-2014	02-May-2027	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00030		Australia	PROCESSING BLOOD	2009330352	15-Dec-2009	2009330352	24-Sep-2015	15-Dec-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00030		Canada	PROCESSING BLOOD	2747941	15-Dec-2008	2747941	20-Feb-2018	15-Dec-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00030		China (People's Republic)	PROCESSING BLOOD	200900152901.X	15-Dec-2009	200900152901.X	08-Sep-2015	15-Dec-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00030		Israel	PROCESSING BLOOD	212898	15-Dec-2009	212898	01-May-2016	15-Dec-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00030		Korea, Republic of	PROCESSING BLOOD	10-2011-7018855	15-Dec-2009	10-1712589	27-Feb-2017	15-Dec-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00030		Mexico	PROCESSING BLOOD	MX/a/2011/006767	15-Dec-2009	335527	09-Dec-2015	15-Dec-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00030		New Zealand	PROCESSING BLOOD	692853	15-Dec-2009	692853	01-Jul-2014	15-Dec-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY

H-TK-00030		Hong Kong	PROCESSING BLOOD	12105151.0	15-Dec-2008	1154187	29-Mar-2016	15-Dec-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00030	D1	Hong Kong	PROCESSING BLOOD	12104428.0	15-Dec-2008	1163569	24-Mar-2016	15-Dec-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00030		Germany	PROCESSING BLOOD	09810835.0	15-Dec-2008	602009041309.0	21-Sep-2016	15-Dec-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00030		Spain	PROCESSING BLOOD	09810835.0	15-Dec-2009	2367580	21-Sep-2016	15-Dec-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00030		France	PROCESSING BLOOD	09810835.0	15-Dec-2009	2367580	21-Sep-2016	15-Dec-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00030		United Kingdom	PROCESSING BLOOD	09810835.0	15-Dec-2009	2367580	21-Sep-2016	15-Dec-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00030		Italy	PROCESSING BLOOD	09810835.0	15-Dec-2009	2367580	21-Sep-2016	15-Dec-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00030	D1	Germany	PROCESSING BLOOD	11176871.3	15-Dec-2009	602009046298.9	24-May-2017	15-Dec-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00030	D1	Spain	PROCESSING BLOOD	11176871.3	15-Dec-2009	2392369	24-May-2017	15-Dec-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00030	D1	France	PROCESSING BLOOD	11176871.3	15-Dec-2009	2392369	24-May-2017	15-Dec-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00030	D1	United Kingdom	PROCESSING BLOOD	11176871.3	15-Dec-2009	2392369	24-May-2017	15-Dec-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00030	D1	Italy	PROCESSING BLOOD	11176871.3	15-Dec-2009	602017000095032	24-May-2017	15-Dec-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00030	D2	Japan	PROCESSING BLOOD	2018-90446	15-Dec-2009	6673974	05-Mar-2020	15-Dec-2029	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00030		Brazil	PROCESSING BLOOD	P10923057-2	15-Dec-2009				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00030		India	PROCESSING BLOOD	2461/KOLNP/2011	15-Dec-2009				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00030		Japan	PROCESSING BLOOD	2011-543573	15-Dec-2009				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00030	D1	United States	PROCESSING BLOOD	15/974881	09-May-2018				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00030	C4	United States	PROCESSING BLOOD	16/171089	25-Oct-2018				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00030	C3	United States	PROCESSING BLOOD	16/171096	25-Oct-2018				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00031		China (People's Republic)	METHOD FOR EX-VIVO EXPANSION OF REGULATORY T CELLS WITH ENHANCED SUPPRESSIVE FUNCTION FOR CLINICAL APPLICATION IN IMMUNE MEDIATED	201080022507.7	17-May-2010	201080022507.7	20-Aug-2014	17-May-2030	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00031		Japan	METHOD FOR EX-VIVO EXPANSION OF REGULATORY T CELLS WITH ENHANCED SUPPRESSIVE FUNCTION FOR CLINICAL APPLICATION IN IMMUNE MEDIATED	2012-511939	17-May-2010	6937003	22-Jun-2018	17-May-2030	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00031	C2	United States	METHOD FOR EX-VIVO EXPANSION OF REGULATORY T CELLS WITH ENHANCED SUPPRESSIVE FUNCTION FOR CLINICAL APPLICATION IN IMMUNE MEDIATED	15/981332	16-May-2018				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00032		Canada	SUPPORT FOR CENTRIFUGE TUBING	2884105	05-May-2016	2884105	28-Apr-2020	05-May-2036	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00032		Japan	SUPPORT FOR CENTRIFUGE TUBING	2018-510321	05-May-2016	6561202	26-Jul-2019	05-May-2036	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00032		United States	SUPPORT FOR CENTRIFUGE TUBING	15/570996	31-Oct-2017	10541415	05-May-2020	05-May-2036	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00032		Germany	SUPPORT FOR CENTRIFUGE TUBING	16724781.6	05-May-2016	602016012561.1	17-Apr-2019	05-May-2036	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00032		Spain	SUPPORT FOR CENTRIFUGE TUBING	16724781.6	05-May-2016	3291918	17-Apr-2019	05-May-2036	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00032		France	SUPPORT FOR CENTRIFUGE TUBING	16724781.6	05-May-2016	3291918	17-Apr-2019	05-May-2036	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY

H-TK-00032		United Kingdom	SUPPORT FOR CENTRIFUGE TUBING	15724761.5	05-May-2016	3291918	17-Apr-2019	05-May-2036	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00032		Italy	SUPPORT FOR CENTRIFUGE TUBING	16724761.5	05-May-2016	3291918	17-Apr-2019	05-May-2036	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00032		Brazil	SUPPORT FOR CENTRIFUGE TUBING	BR112017023336-3	05-May-2016				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00034		United States	CENTRIFUGE SYSTEM AND METHOD FOR COMPONENT TRACKING	15281966	11-Sep-2015	10434239	08-Oct-2019	09-Apr-2037	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00034	C1	United States	CENTRIFUGE SYSTEM AND METHOD FOR COMPONENT TRACKING	16537103	09-Aug-2019				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00036		Australia	DEVICES, METHODS AND SYSTEMS FOR PRIMING, SEPARATING, AND COLLECTING BLOOD COMPONENTS	2016276211	18-Jun-2016	2016276211	03-Jan-2019	18-Jun-2036	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00036		Canada	DEVICES, METHODS AND SYSTEMS FOR PRIMING, SEPARATING, AND COLLECTING BLOOD COMPONENTS	2586791	16-Jun-2016	2586791	07-Jul-2020	16-Jun-2036	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00036		Japan	DEVICES, METHODS AND SYSTEMS FOR PRIMING, SEPARATING, AND COLLECTING BLOOD COMPONENTS	2017-565176	18-Jun-2016	6576477	30-Aug-2019	18-Jun-2036	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00036		Germany	DEVICES, METHODS AND SYSTEMS FOR PRIMING, SEPARATING, AND COLLECTING BLOOD COMPONENTS	16732193.4	16-Jun-2016	602016033665.4	08-Apr-2020	16-Jun-2036	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00036		Spain	DEVICES, METHODS AND SYSTEMS FOR PRIMING, SEPARATING, AND COLLECTING BLOOD COMPONENTS	16732193.4	16-Jun-2016	3310407	08-Apr-2020	16-Jun-2036	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00036		France	DEVICES, METHODS AND SYSTEMS FOR PRIMING, SEPARATING, AND COLLECTING BLOOD COMPONENTS	16732193.4	16-Jun-2016	3310407	08-Apr-2020	16-Jun-2036	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00036		United Kingdom	DEVICES, METHODS AND SYSTEMS FOR PRIMING, SEPARATING, AND COLLECTING BLOOD COMPONENTS	16732193.4	16-Jun-2016	3310407	08-Apr-2020	16-Jun-2036	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00036		Italy	DEVICES, METHODS AND SYSTEMS FOR PRIMING, SEPARATING, AND COLLECTING BLOOD COMPONENTS	16732193.4	18-Jun-2016	3310407	08-Apr-2020	18-Jun-2036	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00036		United States	DEVICES, METHODS AND SYSTEMS FOR PRIMING, SEPARATING, AND COLLECTING BLOOD COMPONENTS	15737193	15-Dec-2017	10628415	10-Nov-2020	16-Oct-2037	Granted	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00036	D1	Australia	DEVICES, METHODS AND SYSTEMS FOR PRIMING, SEPARATING, AND COLLECTING BLOOD COMPONENTS	2016267632	16-Jun-2016				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00036	D1	Japan	DEVICES, METHODS AND SYSTEMS FOR PRIMING, SEPARATING, AND COLLECTING BLOOD COMPONENTS	2019-44544	16-Jun-2016				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00036	D1	European Patent Convention	DEVICES, METHODS AND SYSTEMS FOR PRIMING, SEPARATING, AND COLLECTING BLOOD COMPONENTS	20163767.5	18-Jun-2016				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00036	D2	Japan	DEVICES, METHODS AND SYSTEMS FOR PRIMING, SEPARATING, AND COLLECTING BLOOD COMPONENTS	2020-140773	16-Jun-2016				Pending	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY
H-TK-00036	C1	United States	DEVICES, METHODS AND SYSTEMS FOR PRIMING, SEPARATING, AND COLLECTING BLOOD COMPONENTS	16906976	19-Jun-2020				Published	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY

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