

<b>PATENT ASSIGNMENT COVER SHEET</b>
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EPAS ID: PAT3461214

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	CONFIRMATORY PATENT RIGHTS AGREEMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
OPKO HOLDINGS, INC.	12/19/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	OPKO IRELAND GLOBAL HOLDINGS, LTD.
<b>Street Address:</b>	10 MARKET ST., #721
<b>Internal Address:</b>	CAMANA BAY
<b>City:</b>	GRAND CAYMAN
<b>State/Country:</b>	CAYMAN ISLANDS
<b>Postal Code:</b>	KY1-9006
<b>PROPERTY NUMBERS Total: 12</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	11815845
Application Number:	12162914
Application Number:	12738293
Application Number:	12670834
Application Number:	13388476
Application Number:	13576426
Application Number:	10615797
Application Number:	12828462
Application Number:	14065162
Application Number:	13270358
Application Number:	14603084
Application Number:	14224040
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(312)474-0448
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Email:</b>	anagelberg@marshallip.com
<b>Correspondent Name:</b>	MARSHALL, GERSTEIN & BORUN LLP
<b>Address Line 1:</b>	233 SOUTH WACKER DRIVE
<b>Address Line 2:</b>	SUITE 6300

**PATENT**

<b>Address Line 4:</b>	CHICAGO, ILLINOIS 60606
<b>ATTORNEY DOCKET NUMBER:</b>	31138/G1000
<b>NAME OF SUBMITTER:</b>	AUDREY NAGELBERG
<b>SIGNATURE:</b>	/Audrey Nagelberg/
<b>DATE SIGNED:</b>	07/29/2015
<b>Total Attachments: 7</b> source=CDIagreement#page1.tif source=CDIagreement#page2.tif source=CDIagreement#page3.tif source=CDIagreement#page4.tif source=CDIagreement#page5.tif source=CDIagreement#page6.tif source=CDIagreement#page7.tif	

**CONFIRMATORY PATENT RIGHTS AGREEMENT**

This confirmatory patent rights agreement ("**Agreement**"), effective as July 21, 2015 ("**Effective Date**"), is by and between Cytochroma Development, Inc., Cytochroma Cayman Islands, Ltd., OPKO IP Holdings, Inc. and OPKO Holdings, Inc. (collectively, the "**Original Entities**") and OPKO Ireland Global Holdings, Ltd. ("**OPKO Ireland**").

**WHEREAS**, Cytochroma Development, Inc. was the owner of the Patent Rights (defined below);

**WHEREAS**, Cytochroma Development, Inc. was dissolved on September 17, 2014 and all assets and liabilities of Cytochroma Development, Inc., including the Patent Rights, were distributed to its sole shareholder, Cytochroma Cayman Islands, Ltd.;

**WHEREAS**, on December 17, 2014, Cytochroma Cayman Islands, Ltd. paid a dividend to its sole shareholder, OPKO IP Holdings, Inc., which resulted in the distribution of all of Cytochroma Cayman Islands, Ltd. assets, including the Patent Rights, to its sole shareholder, OPKO IP Holdings, Inc.; thereafter on December 23, 2014 Cytochroma Cayman Islands, Ltd. dissolved and was struck from the Companies Register on March 31, 2015;

**WHEREAS**, on December 18, 2014 OPKO IP Holdings, Inc. paid a dividend to its sole shareholder, OPKO Holdings, Inc. of all of its assets, including the Patent Rights; thereafter on December 23, 2014 OPKO IP Holdings, Inc. dissolved and was struck from the Companies Register on March 31, 2015;

**WHEREAS**, on December 19, 2014, OPKO Holdings, Inc. paid a dividend to OPKO Ireland of all assets it received from OPKO IP Holdings, including the Patent Rights;

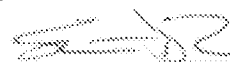
**WHEREAS**, the Original Entities and OPKO Ireland, affiliates of their ultimate parent OPKO Health Inc. would like to memorialize the transfer of the Patent Rights that occurred in the prior transactions ("**Events**") through this Agreement.

**NOW THEREFORE**, for good and valuable consideration, the receipt and sufficiency of which are hereby agreed, the Original Entities hereby agree:

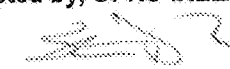
1. The Original Entities acknowledge and agree that the Events resulted in OPKO Ireland's ownership of all right, title and interest in and to the patents and patent applications listed in Exhibit A; all United States, PCT and foreign patent applications claiming priority thereto; all continuations, continuations-in-parts and divisionals of any of the foregoing; patents issuing on any of the foregoing; and reissues, reexaminations, term extensions and supplementary protection certificates of any of the foregoing, together with all rights and privileges granted and secured thereby, including the full right of priority, the right to claim priority and the right sue for past, present and/or future infringement and/or misappropriation of any of the foregoing (collectively, the "**Patent Rights**").
2. The terms and covenants of this Agreement shall inure to the benefit of OPKO Ireland, its successors and assigns and other legal representatives, and shall be binding upon the Original Entities, their successors, legal representatives and assigns.

**IN WITNESS WHEREOF**, the Original Entities have caused this valid and binding agreement to be effective as of the Effective Date.

**CYTOCHROMA DEVELOPMENT, INC.**  
and by its successor, **CYTOCHROMA CAYMAN ISLANDS, LTD.**  
and by its successor, **OPKO IP HOLDINGS, INC.**  
and by its successor, **OPKO HOLDINGS, INC.**  
and by its successor, **OPKO IRELAND GLOBAL HOLDINGS, LTD.**

By:   
Name: Steven D. Rubin  
Title: Director, OPKO Ireland Global Holdings, Inc.  
Date: 7/21/15

**Accepted by, OPKO IRELAND GLOBAL HOLDINGS, LTD.**

By:   
Name: Steven D. Rubin  
Title: Director, OPKO Ireland Global Holdings, Inc.  
Date: 7/21/15

### Exhibit A

Country	Inventor	Title	Appl No	Filed	Patent No	Granted
AUSTRIA	ROBERTS ET AL.	ALUMINIUM FREE MIXED METAL COMPOUNDS AS PHOSPHATE BINDERS	98944055.7	18-Sep-98	1015002	12-Jul-06
BELGIUM	ROBERTS ET AL.	ALUMINIUM FREE MIXED METAL COMPOUNDS AS PHOSPHATE BINDERS	98944055.7	18-Sep-98	1015002	12-Jul-06
BRAZIL	ROBERTS ET AL.	METAL COMPOUNDS, MIXED OR SULPHATED, AS PHOSPHATE BINDERS	PI9812223-1	18-Sep-98		
CANADA	ROBERTS ET AL.	METAL COMPOUNDS, MIXED OR SULPHATED, AS PHOSPHATE BINDERS	2303820	18-Sep-98	2303820	15-Jun-10
CHINA	ROBERTS ET AL.	METAL COMPOUNDS, MIXED OR SULPHATED, AS PHOSPHATE BINDERS	98809233.6	18-Sep-98	Z198809233.6	9-Aug-06
CYPRUS	ROBERTS ET AL.	ALUMINIUM FREE MIXED METAL COMPOUNDS AS PHOSPHATE BINDERS	98944055.7	18-Sep-98	1015002	12-Jul-06
DENMARK	ROBERTS ET AL.	ALUMINIUM FREE MIXED METAL COMPOUNDS AS PHOSPHATE BINDERS	98944055.7	18-Sep-98	1015002	12-Jul-06
EUROPEAN PATENT OFFICE	ROBERTS ET AL.	ALUMINIUM FREE MIXED METAL COMPOUNDS AS PHOSPHATE BINDERS	98944055.7	18-Sep-98	1015002	12-Jul-06
FINLAND	ROBERTS ET AL.	ALUMINIUM FREE MIXED METAL COMPOUNDS AS PHOSPHATE BINDERS	98944055.7	18-Sep-98	1015002	12-Jul-06
FRANCE	ROBERTS ET AL.	ALUMINIUM FREE MIXED METAL COMPOUNDS AS PHOSPHATE BINDERS	98944055.7	18-Sep-98	1015002	12-Jul-06
GERMANY	ROBERTS ET AL.	ALUMINIUM FREE MIXED METAL COMPOUNDS AS PHOSPHATE BINDERS	98944055.7	18-Sep-98	69835217.3	12-Jul-06
GREAT BRITAIN	ROBERTS ET AL.	ALUMINIUM FREE MIXED METAL COMPOUNDS AS PHOSPHATE BINDERS	98944055.7	18-Sep-98	1015002	12-Jul-06
GREECE	ROBERTS ET AL.	ALUMINIUM FREE MIXED METAL COMPOUNDS AS PHOSPHATE BINDERS	98944055.7	18-Sep-98	1015002	12-Jul-06
HUNGARY	ROBERTS ET AL.	METAL COMPOUNDS, MIXED OR SULPHATED, AS PHOSPHATE BINDERS	P0004527	18-Sep-98	227666	18-May-12
IRELAND	ROBERTS ET AL.	ALUMINIUM FREE MIXED METAL COMPOUNDS AS PHOSPHATE BINDERS	98944055.7	18-Sep-98	1015002	12-Jul-06
ITALY	ROBERTS ET AL.	ALUMINIUM FREE MIXED METAL COMPOUNDS AS PHOSPHATE BINDERS	98944055.7	18-Sep-98	1015002	12-Jul-06
JAPAN	ROBERTS ET AL.	METAL COMPOUNDS, MIXED OR SULPHATED, AS PHOSPHATE BINDERS	2000-512558	18-Sep-98	4149659	4-Jul-08
LUXEMBOURG	ROBERTS ET AL.	ALUMINIUM FREE MIXED METAL COMPOUNDS AS PHOSPHATE BINDERS	98944055.7	18-Sep-98	1015002	12-Jul-06
MEXICO	ROBERTS ET AL.	METAL COMPOUNDS, MIXED OR SULPHATED, AS PHOSPHATE BINDERS	A/2000/002379	18-Sep-98	240120	8-Sep-06
MONACO	ROBERTS ET AL.	ALUMINIUM FREE MIXED METAL COMPOUNDS AS PHOSPHATE BINDERS	98944055.7	18-Sep-98	1015002	12-Jul-06
NETHERLANDS	ROBERTS ET AL.	ALUMINIUM FREE MIXED METAL COMPOUNDS AS PHOSPHATE BINDERS	98944055.7	18-Sep-98	1015002	12-Jul-06
NEW ZEALAND	ROBERTS ET AL.	METAL COMPOUNDS, MIXED OR SULPHATED, AS PHOSPHATE BINDERS	503136	18-Sep-98	503136	9-Aug-01
PATENT COOPERATION TREATY	ROBERTS ET AL.	METAL COMPOUNDS, MIXED OR SULPHATED, AS PHOSPHATE BINDERS	GB98/02834	18-Sep-98		
POLAND	ROBERTS ET AL.	METAL COMPOUNDS, MIXED OR SULPHATED, AS PHOSPHATE BINDERS	P-339079	18-Sep-98	194211	10-Oct-06
PORTUGAL	ROBERTS ET AL.	ALUMINIUM FREE MIXED METAL COMPOUNDS AS PHOSPHATE BINDERS	98944055.7	18-Sep-98	1015002	12-Jul-06
SOUTH KOREA	ROBERTS ET AL.	METAL COMPOUNDS, MIXED OR SULPHATED, AS PHOSPHATE BINDERS	10-2000-7002892	18-Sep-98	P0823565	14-Apr-08
SPAIN	ROBERTS ET AL.	ALUMINIUM FREE MIXED METAL COMPOUNDS AS PHOSPHATE BINDERS	98944055.7	18-Sep-98	1015002	12-Jul-06
SWEDEN	ROBERTS ET AL.	ALUMINIUM FREE MIXED METAL COMPOUNDS AS PHOSPHATE BINDERS	98944055.7	18-Sep-98	1015002	12-Jul-06
SWITZERLAND	ROBERTS ET AL.	ALUMINIUM FREE MIXED METAL COMPOUNDS AS PHOSPHATE BINDERS	98944055.7	18-Sep-98	1015002	12-Jul-06
UNITED STATES	ROBERTS ET AL.	METAL COMPOUNDS, MIXED OR SULPHATED, AS PHOSPHATE BINDERS	09/508923	19-Jun-00	6926912	9-Aug-05
ARGENTINA	NEWTON ET AL.	PHARMACEUTICALLY ACTIVE COMPOUNDS, THEIR MANUFACTURE, COMPOSITIONS CONTAINING THEM, AND THEIR USE	60100490	10-Feb-06		

Country	Inventor	Title	Appl No	Filed	Patent No	Granted
AUSTRALIA	NEWTON ET AL.	PHARMACEUTICALLY ACTIVE COMPOUNDS, THEIR MANUFACTURE, COMPOSITIONS CONTAINING THEM, AND THEIR USE	2006213922	9-Feb-06	2006213922	12-Jan-12
BRAZIL	NEWTON ET AL.	PHARMACEUTICALLY ACTIVE COMPOUNDS, THEIR MANUFACTURE, COMPOSITIONS CONTAINING THEM, AND THEIR USE	PI0606923-1	9-Feb-06		
CANADA	NEWTON ET AL.	PHARMACEUTICALLY ACTIVE PHOSPHATE BINDERS, THEIR MANUFACTURE, COMPOSITIONS CONTAINING THEM AND THEIR	2597124	9-Feb-06		
CHILE	NEWTON ET AL.	PHARMACEUTICALLY ACTIVE COMPOUNDS, THEIR MANUFACTURE, COMPOSITIONS CONTAINING THEM, AND THEIR USE	300-2006	9-Feb-06	47039	6-Apr-11
CHINA	NEWTON ET AL.	PHARMACEUTICALLY ACTIVE COMPOUNDS, THEIR MANUFACTURE, COMPOSITIONS CONTAINING THEM, AND THEIR USE	200680004634.8	9-Feb-06		
EUROPEAN PATENT OFFICE	NEWTON ET AL.	PHARMACEUTICALLY ACTIVE COMPOUNDS, THEIR MANUFACTURE, COMPOSITIONS CONTAINING THEM, AND THEIR USE	6709690.9	9-Feb-06		
INDIA	NEWTON ET AL.	PHARMACEUTICALLY ACTIVE COMPOUNDS, THEIR MANUFACTURE, COMPOSITIONS CONTAINING THEM, AND THEIR USE	6678/DELNP/2007	9-Feb-06		
ISRAEL	NEWTON ET AL.	PHARMACEUTICALLY ACTIVE COMPOUNDS, THEIR MANUFACTURE, COMPOSITIONS CONTAINING THEM, AND THEIR USE	184448	9-Feb-06		
JAPAN	NEWTON ET AL.	PHARMACEUTICALLY ACTIVE PHOSPHATE BINDERS, THEIR MANUFACTURE, COMPOSITIONS CONTAINING THEM AND	2007-554635	9-Feb-06	5328157	2-Aug-13
MALAYSIA	NEWTON ET AL.	PHARMACEUTICALLY ACTIVE COMPOUNDS, THEIR MANUFACTURE, COMPOSITIONS CONTAINING THEM, AND THEIR USE	PI20060564	9-Feb-06	MY-150070-A	29-Nov-13
MEXICO	NEWTON ET AL.	PHARMACEUTICALLY ACTIVE COMPOUNDS, THEIR MANUFACTURE, COMPOSITIONS CONTAINING THEM, AND THEIR USE	A/2007/009688	9-Feb-06	306426	7-Jan-13
NEW ZEALAND	NEWTON ET AL.	PHARMACEUTICALLY ACTIVE COMPOUNDS, THEIR MANUFACTURE, COMPOSITIONS CONTAINING THEM, AND THEIR USE	556600	9-Feb-06	556600	10-Jun-10
NORWAY	NEWTON ET AL.	PHARMACEUTICALLY ACTIVE COMPOUNDS, THEIR MANUFACTURE, COMPOSITIONS CONTAINING THEM, AND THEIR USE	20074504	9-Feb-06		
PATENT COOPERATION TREATY	NEWTON ET AL.	PHARMACEUTICALLY ACTIVE COMPOUNDS, THEIR MANUFACTURE, COMPOSITIONS CONTAINING THEM, AND THEIR USE	GB06/00452	9-Feb-06		
RUSSIA	NEWTON ET AL.	PHARMACEUTICALLY ACTIVE COMPOUNDS, THEIR MANUFACTURE, COMPOSITIONS CONTAINING THEM, AND THEIR USE	2007133720	9-Feb-06	2420297	10-Jun-11
SINGAPORE	NEWTON ET AL.	PHARMACEUTICALLY ACTIVE PHOSPHATE BINDERS, THEIR MANUFACTURE, COMPOSITIONS CONTAINING THEM AND THEIR USE	200705872-0	9-Feb-06	134663	30-Dec-11
SOUTH AFRICA	NEWTON ET AL.	PHARMACEUTICALLY ACTIVE COMPOUNDS, THEIR MANUFACTURE, COMPOSITIONS CONTAINING THEM, AND THEIR USE	2007/06160	9-Feb-06	2007/06160	25-Feb-09
SOUTH KOREA	NEWTON ET AL.	PHARMACEUTICALLY ACTIVE COMPOUNDS, THEIR MANUFACTURE, COMPOSITIONS CONTAINING THEM, AND THEIR USE	10-2007-7017214	9-Feb-06		
TAIWAN	NEWTON ET AL.	PHARMACEUTICALLY ACTIVE COMPOUNDS, THEIR MANUFACTURE, COMPOSITIONS CONTAINING THEM, AND THEIR USE	95104355	9-Feb-06	I461201	21-Nov-14
THAILAND	NEWTON ET AL.	PHARMACEUTICALLY ACTIVE COMPOUNDS, THEIR MANUFACTURE, COMPOSITIONS CONTAINING THEM, AND THEIR USE	108559	9-Feb-06		
UNITED ARAB EMIRATES	NEWTON ET AL.	PHARMACEUTICALLY ACTIVE COMPOUNDS, THEIR MANUFACTURE, COMPOSITIONS CONTAINING THEM, AND THEIR USE	P716/07	9-Feb-06		
UNITED STATES	NEWTON ET AL.	PHARMACEUTICALLY ACTIVE COMPOUNDS, THEIR MANUFACTURE, COMPOSITIONS CONTAINING THEM, AND THEIR USE	11/815845	8-Aug-07		
ARGENTINA	PENNELL ET AL.	GRANULAR MATERIAL COMPRISING WATER-INSOLUBLE INORGANIC PHOSPHATE BINDERS	P070100413	31-Jan-07		
AUSTRALIA	PENNELL ET AL.	GRANULAR MATERIAL COMPRISING WATER-	2007211375	30-Jan-07	2007211375	12-Dec-13

Country	Inventor	Title	Appl No	Filed	Patent No	Granted
		INSOLUBLE INORGANIC PHOSPHATE BINDERS				
BRAZIL	PENNEL ET AL.	GRANULAR MATERIAL COMPRISING WATER-INSOLUBLE INORGANIC PHOSPHATE BINDERS	PI0706763-1	30-Jan-07		
CANADA	PENNEL ET AL.	GRANULAR MATERIAL COMPRISING WATER-INSOLUBLE INORGANIC PHOSPHATE BINDERS	2633762	30-Jan-07		
CHILE	PENNEL ET AL.	GRANULAR MATERIAL COMPRISING WATER-INSOLUBLE INORGANIC PHOSPHATE BINDERS	2007-0253	31-Jan-07	48709	30-Oct-12
CHINA	PENNEL ET AL.	GRANULAR MATERIAL COMPRISING WATER-INSOLUBLE INORGANIC PHOSPHATE BINDERS	200780004102.9	30-Jan-07	200780004102.9	9-Jul-14
COSTA RICA	PENNEL ET AL.	GRANULAR MATERIAL COMPRISING WATER-INSOLUBLE INORGANIC PHOSPHATE BINDERS	10185	30-Jan-07		
EUROPEAN PATENT OFFICE	PENNEL ET AL.	GRANULAR MATERIAL COMPRISING WATER-INSOLUBLE INORGANIC PHOSPHATE BINDERS	7705074.8	30-Jan-07		
HONG KONG	PENNEL ET AL.	GRANULAR MATERIAL COMPRISING WATER-INSOLUBLE INORGANIC PHOSPHATE BINDERS	9100675.3	30-Jan-07		
INDIA	PENNEL ET AL.	GRANULAR MATERIAL COMPRISING WATER-INSOLUBLE INORGANIC PHOSPHATE BINDERS	6172/DELNP/2008	30-Jan-07		
ISRAEL	PENNEL ET AL.	GRANULAR MATERIAL COMPRISING WATER-INSOLUBLE INORGANIC PHOSPHATE BINDERS	192263	30-Jan-07		
JAPAN	PENNEL ET AL.	GRANULAR MATERIAL COMPRISING WATER-INSOLUBLE INORGANIC PHOSPHATE BINDERS	2008-552877	30-Jan-07	5457681	17-Jan-14
MALAYSIA	PENNEL ET AL.	GRANULAR MATERIAL COMPRISING WATER-INSOLUBLE INORGANIC PHOSPHATE BINDERS	PI20070135	29-Jan-07		
MEXICO	PENNEL ET AL.	GRANULAR MATERIAL COMPRISING WATER-INSOLUBLE INORGANIC PHOSPHATE BINDERS	A/2008/009415	30-Jan-07		
NEW ZEALAND	PENNEL ET AL.	GRANULAR MATERIAL COMPRISING WATER-INSOLUBLE INORGANIC PHOSPHATE BINDERS	569408	30-Jan-07	569408	11-Jul-11
NORWAY	PENNEL ET AL.	GRANULAR MATERIAL COMPRISING WATER-INSOLUBLE INORGANIC PHOSPHATE BINDERS	20083682	30-Jan-07		
PATENT COOPERATION TREATY	PENNEL ET AL.	GRANULAR MATERIAL COMPRISING WATER-INSOLUBLE INORGANIC PHOSPHATE BINDERS	GB07/00308	30-Jan-07		
RUSSIA	PENNEL ET AL.	GRANULAR MATERIAL COMPRISING WATER-INSOLUBLE INORGANIC PHOSPHATE BINDERS	2008135130	30-Jan-07	2437650	27-Dec-11
SINGAPORE	PENNEL ET AL.	GRANULAR MATERIAL COMPRISING WATER-INSOLUBLE INORGANIC PHOSPHATE BINDERS	200804920-7	30-Jan-07	143916	15-Mar-11
SOUTH AFRICA	PENNEL ET AL.	GRANULAR MATERIAL COMPRISING WATER-INSOLUBLE INORGANIC PHOSPHATE BINDERS	2008/05903	30-Jan-07	2008/05903	28-Oct-09
SOUTH KOREA	PENNEL ET AL.	GRANULAR MATERIAL COMPRISING WATER-INSOLUBLE INORGANIC PHOSPHATE BINDERS	10-2008-7015878	30-Jan-07		
TAIWAN	PENNEL ET AL.	GRANULAR MATERIAL COMPRISING WATER-INSOLUBLE INORGANIC PHOSPHATE BINDERS	96103315	29-Jan-07	1328459	11-Aug-10
THAILAND	PENNEL ET AL.	GRANULAR MATERIAL COMPRISING WATER-INSOLUBLE INORGANIC PHOSPHATE BINDERS	701000410	30-Jan-07		
UNITED STATES	PENNEL ET AL.	WATER-INSOLUBLE, IRON-CONTAINING MIXED METAL, GRANULAR MATERIAL	12/162914	31-Jul-08		
AUSTRALIA	NEWTON ET AL.	MIXED METAL COMPOUNDS FOR TREATMENT OF HYPERPHOS PHATAEMIA	2008313466	15-Oct-08	2008313466	5-Feb-15
BRAZIL	NEWTON ET AL.	MIXED METAL COMPOUNDS FOR TREATMENT OF HYPERPHOS PHATAEMIA	PI0817889-5	15-Oct-08		
CANADA	NEWTON ET AL.	MIXED METAL COMPOUNDS FOR TREATMENT OF HYPERPHOS PHATAEMIA	2699576	15-Oct-08		
CHINA	NEWTON ET AL.	MIXED METAL COMPOUNDS FOR TREATMENT OF HYPERPHOS PHATAEMIA	200880111989.6	15-Oct-08	L200880111989.6	30-Oct-13
EUROPEAN PATENT OFFICE	NEWTON ET AL.	MIXED METAL COMPOUNDS FOR TREATMENT OF HYPERPHOS PHATAEMIA	8806618.8	15-Oct-08		
HONG KONG	NEWTON ET AL.	MIXED METAL COMPOUNDS FOR TREATMENT OF HYPERPHOS PHATAEMIA	10108882.2	15-Oct-08		
INDIA	NEWTON ET AL.	MIXED METAL COMPOUNDS FOR TREATMENT OF HYPERPHOS PHATAEMIA	2180/DELNP/2010	15-Oct-08		
ISRAEL	NEWTON ET AL.	MIXED METAL COMPOUNDS FOR TREATMENT OF HYPERPHOS PHATAEMIA	204552	15-Oct-08		
JAPAN	NEWTON ET AL.	MIXED METAL COMPOUNDS FOR TREATMENT OF HYPERPHOS PHATAEMIA	2010-529446	15-Oct-08	5622579	3-Oct-14
MEXICO	NEWTON ET AL.	MIXED METAL COMPOUNDS FOR TREATMENT OF HYPERPHOS PHATAEMIA	A/2010/004089	15-Oct-08		
NEW ZEALAND	NEWTON ET AL.	MIXED METAL COMPOUNDS FOR TREATMENT OF	583969	15-Oct-08	583969	3-Sep-12

Country	Inventor	Title	Appl No	Filed	Patent No	Granted
		HYPERPHOS PHATAEMIA				
PATENT COOPERATION TREATY	NEWTON ET AL.	MIXED METAL COMPOUNDS FOR TREATMENT OF HYPERPHOS PHATAEMIA	GB08/03509	15-Oct-08		
SOUTH AFRICA	NEWTON ET AL.	MIXED METAL COMPOUNDS FOR TREATMENT OF HYPERPHOS PHATAEMIA	2010/01720	15-Oct-08	2010/01720	25-May-11
SOUTH KOREA	NEWTON ET AL.	MIXED METAL COMPOUNDS FOR TREATMENT OF HYPERPHOS PHATAEMIA	10-2010-7007540	15-Oct-08		
UNITED STATES	NEWTON ET AL.	MIXED METAL COMPOUNDS FOR TREATMENT OF HYPERPHOSPHATAEMIA	12/738293	16-Apr-10		
BRAZIL	NEWTON ET AL.	MIXED METAL COMPOUNDS USED AS ANTACIDS	PI0814304-8	24-Jul-08		
CHINA	NEWTON ET AL.	MIXED METAL COMPOUNDS USED AS ANTACIDS	200880025493.7	24-Jul-08	200880025493.7	6-Mar-13
EUROPEAN PATENT OFFICE	NEWTON ET AL.	MIXED METAL COMPOUNDS USED AS ANTACIDS	8776045	24-Jul-08		
HONG KONG	NEWTON ET AL.	MIXED METAL COMPOUNDS USED AS ANTACIDS	10108881.3	24-Jul-08		
JAPAN	NEWTON ET AL.	MIXED METAL COMPOUNDS USED AS ANTACIDS	2010-517482	24-Jul-08		
PATENT COOPERATION TREATY	NEWTON ET AL.	MIXED METAL COMPOUNDS USED AS ANTACIDS	GB08/02533	24-Jul-08		
RUSSIA	NEWTON ET AL.	MIXED METAL COMPOUNDS USED AS ANTACIDS	2010106856	24-Jul-08	2510265	27-Mar-14
SOUTH KOREA	NEWTON ET AL.	MIXED METAL COMPOUNDS USED AS ANTACIDS	10-2010-7001670	24-Jul-08		
UNITED STATES	NEWTON ET AL.	MIXED METAL COMPOUNDS USED AS ANTACIDS	12/670834	26-Jan-10		
ARGENTINA	APPLEWHITE ET AL.	METHOD	P100102697	26-Jul-10		
CHINA	APPLEWHITE ET AL.	METHOD	201080040879.2	2-Aug-10		
EUROPEAN PATENT OFFICE	APPLEWHITE ET AL.	'ANGENTIAL FILTRATION PROCESS	10739987.5	2-Aug-10		
INDIA	APPLEWHITE ET AL.	METHOD	1900/CHENP/2012	2-Aug-10		
JAPAN	APPLEWHITE ET AL.	METHOD	2012-523389	2-Aug-10		
PATENT COOPERATION TREATY	APPLEWHITE ET AL.	METHOD	PCT/GB10/51271	2-Aug-10		
TAIWAN	APPLEWHITE ET AL.	METHOD	99122681	9-Jul-10		
UNITED STATES	APPLEWHITE ET AL.	METHOD	13/388476	30-Apr-12		
AUSTRALIA	APPLEWHITE ET AL.	COMPOSITION COMPRISING MIXED METAL COMPOUNDS AND XANTHAN	2011212254	3-Feb-11		
BRAZIL	APPLEWHITE ET AL.	COMPOSITION COMPRISING MIXED METAL COMPOUNDS AND XANTHAN	R112012019564-6	3-Feb-11		
CANADA	APPLEWHITE ET AL.	COMPOSITION COMPRISING MIXED METAL COMPOUNDS AND XANTHAN	2788401	3-Feb-11		
CHINA	APPLEWHITE ET AL.	COMPOSITION COMPRISING MIXED METAL COMPOUNDS AND XANTHAN	201180011542.3	3-Feb-11		
EUROPEAN PATENT OFFICE	APPLEWHITE ET AL.	COMPOSITION COMPRISING MIXED METAL COMPOUNDS AND XANTHAN	11702693	3-Feb-11		
HONG KONG	APPLEWHITE ET AL.	COMPOSITION COMPRISING MIXED METAL COMPOUNDS AND XANTHAN	13106596	3-Feb-11		
INDIA	APPLEWHITE ET AL.	COMPOSITION COMPRISING MIXED METAL COMPOUNDS AND XANTHAN	7515/CHENP/2012	3-Feb-11		
JAPAN	APPLEWHITE ET AL.	COMPOSITION COMPRISING MIXED METAL COMPOUNDS AND XANTHAN	2012-551683	3-Feb-11		
PATENT COOPERATION TREATY	APPLEWHITE ET AL.	COMPOSITION COMPRISING MIXED METAL COMPOUNDS AND XANTHAN	PCT/GB11/50185	3-Feb-11		
SINGAPORE	APPLEWHITE ET AL.	COMPOSITION COMPRISING MIXED METAL COMPOUNDS AND XANTHAN	201205691-7	3-Feb-11		
SOUTH KOREA	APPLEWHITE ET AL.	COMPOSITION COMPRISING MIXED METAL COMPOUNDS AND XANTHAN	10-2012-7022145	3-Feb-11		

Country	Inventor	Title	Appl No	Filed	Patent No	Granted
UNITED STATES	APPLEWHITE ET AL.	COMPOSITION COMPRISING MIXED METAL COMPOUNDS AND XANTHAN GUM	13/576426	13-Mar-13		
AUSTRIA	ROBERTS ET AL.	METAL COMPOUNDS, MIXED OR SULPHATED, AS PHOSPHATE BINDERS	6013811.2	18-Sep-98	1759704	1-Dec-10
BELGIUM	ROBERTS ET AL.	METAL COMPOUNDS, MIXED OR SULPHATED, AS PHOSPHATE BINDERS	6013811.2	18-Sep-98	1759704	1-Dec-10
BRAZIL	ROBERTS ET AL.	METAL COMPOUNDS, MIXED OR SULPHATED, AS PHOSPHATE BINDERS	PI9816221-7	18-Sep-98		
CHINA	ROBERTS ET AL.	METAL COMPOUNDS, MIXED OR SULPHATED, AS PHOSPHATE BINDERS	200610092802.5	18-Sep-98	200610092802.5	4-Apr-12
CYPRUS	ROBERTS ET AL.	METAL COMPOUNDS, MIXED OR SULPHATED, AS PHOSPHATE BINDERS	6013811.2	18-Sep-98	1759704	1-Dec-10
DENMARK	ROBERTS ET AL.	METAL COMPOUNDS, MIXED OR SULPHATED, AS PHOSPHATE BINDERS	6013811.2	18-Sep-98	1759704	1-Dec-10
EUROPEAN PATENT OFFICE	ROBERTS ET AL.	METAL COMPOUNDS, MIXED OR SULPHATED, AS PHOSPHATE BINDERS	6013811.2	18-Sep-98	1759704	1-Dec-10
FINLAND	ROBERTS ET AL.	METAL COMPOUNDS, MIXED OR SULPHATED, AS PHOSPHATE BINDERS	6013811.2	18-Sep-98	1759704	1-Dec-10
FRANCE	ROBERTS ET AL.	METAL COMPOUNDS, MIXED OR SULPHATED, AS PHOSPHATE BINDERS	6013811.2	18-Sep-98	1759704	1-Dec-10
GERMANY	ROBERTS ET AL.	METAL COMPOUNDS, MIXED OR SULPHATED, AS PHOSPHATE BINDERS	6013811.2	18-Sep-98	69842028.4	1-Dec-10
GREAT BRITAIN	ROBERTS ET AL.	METAL COMPOUNDS, MIXED OR SULPHATED, AS PHOSPHATE BINDERS	6013811.2	18-Sep-98	1759704	1-Dec-10
GREECE	ROBERTS ET AL.	METAL COMPOUNDS, MIXED OR SULPHATED, AS PHOSPHATE BINDERS	6013811.2	18-Sep-98	1759704	1-Dec-10
HONG KONG	ROBERTS ET AL.	METAL COMPOUNDS, MIXED OR SULPHATED, AS PHOSPHATE BINDERS	7105937.8	18-Sep-98	1098390	10-Jun-11
HUNGARY	ROBERTS ET AL.	METAL COMPOUNDS, MIXED OR SULPHATED, AS PHOSPHATE BINDERS	P0900652	18-Sep-98		
IRELAND	ROBERTS ET AL.	METAL COMPOUNDS, MIXED OR SULPHATED, AS PHOSPHATE BINDERS	6013811.2	18-Sep-98	1759704	1-Dec-10
ITALY	ROBERTS ET AL.	METAL COMPOUNDS, MIXED OR SULPHATED, AS PHOSPHATE BINDERS	6013811.2	18-Sep-98	1759704	1-Dec-10
JAPAN	ROBERTS ET AL.	METAL COMPOUNDS, MIXED OR SULPHATED, AS PHOSPHATE BINDERS	2007-076097	18-Sep-98	4929426	24-Feb-12
LUXEMBOURG	ROBERTS ET AL.	METAL COMPOUNDS, MIXED OR SULPHATED, AS PHOSPHATE BINDERS	6013811.2	18-Sep-98	1759704	1-Dec-10
MEXICO	ROBERTS ET AL.	METAL COMPOUNDS, MIXED OR SULPHATED, AS PHOSPHATE BINDERS	A/2006/010085	18-Sep-98	286270	4-May-11
MONACO	ROBERTS ET AL.	METAL COMPOUNDS, MIXED OR SULPHATED, AS PHOSPHATE BINDERS	6013811.2	18-Sep-98	1759704	1-Dec-10
NETHERLANDS	ROBERTS ET AL.	METAL COMPOUNDS, MIXED OR SULPHATED, AS PHOSPHATE BINDERS	6013811.2	18-Sep-98	1759704	1-Dec-10
POLAND	ROBERTS ET AL.	METAL COMPOUNDS, MIXED OR SULPHATED, AS PHOSPHATE BINDERS	P-380111	18-Sep-98		
PORTUGAL	ROBERTS ET AL.	METAL COMPOUNDS, MIXED OR SULPHATED, AS PHOSPHATE BINDERS	6013811.2	18-Sep-98	1759704	1-Dec-10
SOUTH KOREA	ROBERTS ET AL.	METAL COMPOUNDS, MIXED OR SULPHATED, AS PHOSPHATE BINDERS	10-2007-7001491	18-Sep-98	10-0997504	24-Nov-10
SPAIN	ROBERTS ET AL.	METAL COMPOUNDS, MIXED OR SULPHATED, AS PHOSPHATE BINDERS	6013811.2	18-Sep-98	1759704	1-Dec-10
SWEDEN	ROBERTS ET AL.	METAL COMPOUNDS, MIXED OR SULPHATED, AS PHOSPHATE BINDERS	6013811.2	18-Sep-98	1759704	1-Dec-10
SWITZERLAND	ROBERTS ET AL.	METAL COMPOUNDS, MIXED OR SULPHATED, AS PHOSPHATE BINDERS	6013811.2	18-Sep-98	1759704	1-Dec-10
UNITED STATES	ROBERTS ET AL.	METAL COMPOUNDS, MIXED OR SULPHATED, AS PHOSPHATE BINDERS	10/615797	10-Jul-03	7799351	21-Sep-10
JAPAN	ROBERTS ET AL.	METAL COMPOUNDS, MIXED OR SULPHATED, AS PHOSPHATE BINDERS	2007-296734	18-Sep-98		
UNITED STATES	ROBERTS ET AL.	METAL COMPOUNDS, MIXED OR SULPHATED, AS PHOSPHATE BINDERS	12/828462	1-Jul-10	8568792	29-Oct-13
UNITED STATES	ROBERTS ET AL.	METAL COMPOUNDS MIXED OR SULPHATED, AS PHOSPHATE BINDERS	14/065162	28-Oct-13		
JAPAN	NEWTON ET AL.	PHARMACEUTICALLY ACTIVE COMPOUNDS, THEIR MANUFACTURE, COMPOSITIONS CONTAINING THEM, AND THEIR USE	2013-106271	9-Feb-06		
SOUTH KOREA	NEWTON ET AL.	PHARMACEUTICALLY ACTIVE COMPOUNDS, THEIR MANUFACTURE, COMPOSITIONS	10-2013-7024757	9-Feb-06		



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		CONTAINING THEM, AND THEIR USE				
UNITED STATES	NEWTON ET AL.	PHARMACEUTICALLY ACTIVE COMPOUNDS, THEIR MANUFACTURE, COMPOSITIONS CONTAINING THEM, AND THEIR USE	13/270358	11-Oct-11		
SOUTH KOREA	NEWTON ET AL.	PHARMACEUTICALLY ACTIVE PHOSPHATE BINDERS, THEIR MANUFACTURE, COMPOSITIONS CONTAINING THEM AND THEIR	10-2014-7009809	9-Feb-06		
GREAT BRITAIN	NEWTON ET AL.	PHARMACEUTICALLY ACTIVE COMPOUNDS, THEIR MANUFACTURE, COMPOSITIONS CONTAINING THEM, AND THEIR USE	502787.5	10-Feb-05		
AUSTRALIA	PENNEL ET AL.	GRANULAR MATERIAL COMPRISING WATER-INSOLUBLE INORGANIC PHOSPHATE BINDERS	2013263790	30-Jan-07		
CHINA	PENNEL ET AL.	GRANULAR MATERIAL COMPRISING WATER-INSOLUBLE INORGANIC PHOSPHATE BINDERS	201310680466.6	30-Jan-07		
COSTA RICA	PENNEL ET AL.	GRANULAR MATERIAL COMPRISING WATER-INSOLUBLE INORGANIC PHOSPHATE BINDERS	2015-0031	30-Jan-07		
HONG KONG	PENNEL ET AL.	GRANULAR MATERIAL COMPRISING WATER-INSOLUBLE INORGANIC PHOSPHATE BINDERS	14109477.7	30-Jan-07		
JAPAN	PENNEL ET AL.	GRANULAR MATERIAL COMPRISING WATER-INSOLUBLE INORGANIC PHOSPHATE BINDERS	2013-237099	30-Jan-07		
MEXICO	PENNEL ET AL.	GRANULAR MATERIAL COMPRISING WATER-INSOLUBLE INORGANIC PHOSPHATE BINDERS	A/2015/002238	30-Jan-07		
SOUTH KOREA	PENNEL ET AL.	GRANULAR MATERIAL COMPRISING WATER-INSOLUBLE INORGANIC PHOSPHATE BINDERS	10-2014-7010422	30-Jan-07		
UNITED STATES	PENNEL ET AL.	WATER-INSOLUBLE, IRON-CONTAINING MIXED METAL, GRANULAR MATERIAL	14/603084	22-Jan-15		
GREAT BRITAIN	PENNEL ET AL.	COMPOSITIONS	601899.8	31-Jan-06		
GREAT BRITAIN	PENNEL ET AL.	MATERIAL	603984.6	28-Feb-06		
JAPAN	NEWTON ET AL.	MIXED METAL COMPOUNDS FOR TREATMENT OF HYPERPHOSPHATAEMIA	2014-047829	15-Oct-08		
GREAT BRITAIN	NEWTON ET AL.	MIXED METAL COMPOUNDS FOR TREATMENT OF HYPERPHOSPHATAEMIA	720220.3	16-Oct-07		
JAPAN	NEWTON ET AL.	MIXED METAL COMPOUNDS USED AS ANTACIDS	2014-257980	24-Jul-08		
RUSSIA	NEWTON ET AL.	MIXED METAL COMPOUNDS USED AS ANTACIDS	2013151299	24-Jul-08		
SOUTH KOREA	NEWTON ET AL.	MIXED METAL COMPOUNDS USED AS ANTACIDS	10-2015-7003291	24-Jul-08		
GREAT BRITAIN	NEWTON ET AL.	MIXED METAL COMPOUNDS USED AS ANTACIDS	714670.7	27-Jul-07		
UNITED STATES	APPLEWHITE ET AL.	METHOD	14/224040	24-Mar-14		
GREAT BRITAIN	APPLEWHITE ET AL.	METHOD	913525.2	3-Aug-09		
GREAT BRITAIN	APPLEWHITE ET AL.	COMPOSITION	1001779.6	4-Feb-10		