

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5373987

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
IMERYS MINERALS, LTD.	12/14/2018

RECEIVING PARTY DATA

Name:	IMERTECH SAS
Street Address:	43 QUAI DE GRENELLE
City:	PARIS
State/Country:	FRANCE
Postal Code:	75015

PROPERTY NUMBERS Total: 50

Property Type	Number
Application Number:	14774947
Patent Number:	6602341
Patent Number:	6620856
Patent Number:	7442281
Patent Number:	7476704
Patent Number:	7758690
Patent Number:	7875151
Patent Number:	9260613
Patent Number:	9943820
Application Number:	14379164
Patent Number:	9204631
Patent Number:	9969868
Patent Number:	9433918
Patent Number:	9783931
Application Number:	14896317
Patent Number:	10015961
Application Number:	15308312
Application Number:	15107017
Application Number:	15107396
Application Number:	15190908

PATENT

Property Type	Number
Application Number:	15532661
Application Number:	15541118
Application Number:	62574914
Application Number:	15722609
Application Number:	15562366
Application Number:	15736322
Application Number:	15736341
Application Number:	15736996
Application Number:	15735964
Patent Number:	9868876
Patent Number:	10087303
Application Number:	15309134
Application Number:	15316361
Application Number:	15509770
Application Number:	15336932
Application Number:	15517104
Application Number:	15512078
Application Number:	16096882
Application Number:	16092082
Application Number:	15774676
Application Number:	15760687
Application Number:	15737113
Application Number:	15735633
Application Number:	16078289
Application Number:	16074575
Application Number:	15950643
Application Number:	16009686
Application Number:	16070079
Application Number:	16300081
Application Number:	16301153

CORRESPONDENCE DATA

Fax Number: (202)408-4400

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.

Phone: 202.216.5492

Email: gonnella@finnegan.com

Correspondent Name: IMERYS/FINNEGAN

Address Line 1: 901 NEW YORK AVE., NW

Address Line 4: WASHINGTON, D.C. 20001

PATENT

REEL: 049946 FRAME: 0592

ATTORNEY DOCKET NUMBER:	MINERALS TO IMERTECH SAS
NAME OF SUBMITTER:	AMY-MARIE GONNELLA
SIGNATURE:	/Amy-Marie Gonnella/
DATE SIGNED:	02/13/2019

Total Attachments: 33

source=Imerys Minerals Limited Assignment Executed#page1.tif
 source=Imerys Minerals Limited Assignment Executed#page2.tif
 source=Imerys Minerals Limited Assignment Executed#page3.tif
 source=Imerys Minerals Limited Assignment Executed#page4.tif
 source=Imerys Minerals Limited Assignment Executed#page5.tif
 source=Imerys Minerals Limited Assignment Executed#page6.tif
 source=Imerys Minerals Limited Assignment Executed#page7.tif
 source=Imerys Minerals Limited Assignment Executed#page8.tif
 source=Imerys Minerals Limited Assignment Executed#page9.tif
 source=Imerys Minerals Limited Assignment Executed#page10.tif
 source=Imerys Minerals Limited Assignment Executed#page11.tif
 source=Imerys Minerals Limited Assignment Executed#page12.tif
 source=Imerys Minerals Limited Assignment Executed#page13.tif
 source=Imerys Minerals Limited Assignment Executed#page14.tif
 source=Imerys Minerals Limited Assignment Executed#page15.tif
 source=Imerys Minerals Limited Assignment Executed#page16.tif
 source=Imerys Minerals Limited Assignment Executed#page17.tif
 source=Imerys Minerals Limited Assignment Executed#page18.tif
 source=Imerys Minerals Limited Assignment Executed#page19.tif
 source=Imerys Minerals Limited Assignment Executed#page20.tif
 source=Imerys Minerals Limited Assignment Executed#page21.tif
 source=Imerys Minerals Limited Assignment Executed#page22.tif
 source=Imerys Minerals Limited Assignment Executed#page23.tif
 source=Imerys Minerals Limited Assignment Executed#page24.tif
 source=Imerys Minerals Limited Assignment Executed#page25.tif
 source=Imerys Minerals Limited Assignment Executed#page26.tif
 source=Imerys Minerals Limited Assignment Executed#page27.tif
 source=Imerys Minerals Limited Assignment Executed#page28.tif
 source=Imerys Minerals Limited Assignment Executed#page29.tif
 source=Imerys Minerals Limited Assignment Executed#page30.tif
 source=Imerys Minerals Limited Assignment Executed#page31.tif
 source=Imerys Minerals Ltd Assignment Executed by Imertech#page1.tif
 source=Imerys Minerals Ltd Assignment Executed by Imertech#page2.tif

ASSIGNMENT

THIS DEED OF ASSIGNMENT is made on 14th, day of December, 2018.

BETWEEN

- (1) IMERYS MINERALS, LTD. whose registered office is at Par Moor Centre Par Moor Road, Par PL24 2SQ, United Kingdom (the "Assignor"); and
- (2) IMERTECH SAS whose registered office is at 43 Quai de Grenelle, Paris, France 75015 (the "Assignee")

BACKGROUND:

- (A) The Assignor has agreed to assign and hereby assigns the Intellectual Property Rights described in Schedule 1 to the Assignee on the terms set out below.

AGREEMENT:

The parties **AGREE** as follows:

1. Definitions

In this Assignment unless the context otherwise requires:

"**Intellectual Property Rights**" means all of Assignor's patents, patent applications, utility models, registered designs, and any and all copyright, database rights, moral rights, design right, and all similar property rights subsisting in or arising out such patents, patent applications, utility models and registered designs, including those identified in in Schedule 1;

"**Know-how**" means know-how, research data, trial results, designs, knowledge, trade secrets and all other information, documents and material recorded in whatever form or medium relating to the Intellectual Property Rights or the Assignee's business and including any information disclosed in a patent application;

2. Assignment

Pursuant to and in consideration of the Transfer of Legacy Intellectual Property Rights Agreement previously signed between the Assignee and the Assignor, and the sum of £1, now paid by the Assignee to the Assignor (receipt of which the Assignor hereby acknowledges) the Assignor assigns to the Assignee with full title guarantee free from all and any charges or other third party rights all his right, title and interest in the Intellectual Property Rights and Know How, together with all rights of action, remedies, powers and benefits relating to any of the Intellectual Property Rights and Know How, including the right to apply for a patent application at the European Patent Office and in any other country or patent office of the world, including the right to claim priority from any patent application filed for the Invention, including all provisionals, non-provisionals, divisionals, continuations, continuations in part, reexaminations, reissues and all other applications for any patent that shall be filed, issued or granted in

any country on such inventions, including but not limited to utility models, designs, design patents, as well as envelope soleau and like rights of exclusion; and the right to sue for damages and other relief for infringement in any of the Intellectual Property rights and Know How (to the extent that Assignor has such rights in the case of co-ownership), whether taking place before or after the date of this Assignment.

3. Confidentiality

The Assignor shall keep and procure to be kept secret and confidential the Know-how and other confidential information acquired from or through the Assignee and will not use nor disclose the same save with the prior written consent of the Assignee.

4. Further Assurance

The Assignor undertakes that, at the request and expense of the Assignee, it will do all acts and things (including, without limitation, making declarations and oaths) and execute all documents that may be reasonably necessary under the law of any country for completing the transfer to the Assignee of the full right, title and interest to any of the rights assigned by clause 2 or to record the assignment at any country's national patent office or other official body as may be required.

At the request of the Assignee, the Assignor shall (at the Assignee's expense) provide all assistance to the Assignee which may be necessary in connection with bringing or defending any proceedings relating to any of the rights assigned by clause 2.

5. Applicable Law and Jurisdiction

This Assignment and any dispute or claim arising out of or in connection with it shall be governed by and construed in accordance with the laws of France and all disputes and claims arising out of or relating to this Assignment shall be subject to the exclusive jurisdiction of the Commercial Court of Paris, to which the parties irrevocably submit.

IN WITNESS of the above the Assignor and Assignee have signed executed this Assignment on the date written at the head of this Assignment.

ASSIGNOR NAME: IMERYS MINERALS, LTD.

Signature: _____

A. T. Stuplet

Printed Name: _____

Asther Jean Stuplet

Corporate Title: _____

DIRECTOR

ASSIGNEE NAME: IMERTECH SAS

Signature: _____

Printed Name: _____

Corporate Title: _____

Schedule 1

Docket Number	Country / Region	Application Number	First Filing Date	Application Date	Patent Number	Grant Date	Assignor
<u>P34.00003.GB</u>	Great Britain	GB0302204.3	8/17/2001	8/17/2001	GB2382073	3/30/2005	Imerys Minerals, Ltd.
<u>P34.00003.US</u>	United States	10/344,676	8/17/2001	2/14/2003	7,442,281	10/28/2008	Imerys Minerals, Ltd.
P34.00003.US.DIV	United States	12/234,531	8/17/2001	9/19/2008	7,875,151	1/25/2011	Imerys Minerals, Ltd.
<u>P34.00004.EP.BE</u>	Belgium	7025191.3	8/17/2001	8/17/2001	1914275	6/8/2016	Imerys Minerals, Ltd.
<u>P34.00004.EP.FR</u>	France	7025191.3	8/17/2001	8/17/2001	1914275	6/8/2016	Imerys Minerals, Ltd.
<u>P34.00004.FR</u>	France	1963128.2	8/17/2001	8/17/2001	EP1313811	10/12/2011	Imerys Minerals, Ltd.
<u>P34.00004.DE</u>	Germany	1963128.2	8/17/2001	8/17/2001	1313811	10/12/2011	Imerys Minerals, Ltd.
<u>P34.00004.EP.DE</u>	Germany	60149978.6	8/17/2001	8/17/2001	1914275	6/8/2016	Imerys Minerals, Ltd.
<u>P34.00004.EP.GB</u>	Great Britain	7025191.3	8/17/2001	8/17/2001	1914275	6/8/2016	Imerys Minerals, Ltd.
P34.00004.GB2	Great Britain	1963128.2	8/17/2001	8/17/2001	EP1313811	10/12/2011	Imerys Minerals, Ltd.
<u>P34.00004.IT</u>	Italy	1963128.2	8/17/2001	8/17/2001	EP1313811	10/12/2011	Imerys Minerals, Ltd.
<u>P34.00004.EP.NL</u>	Netherlands	7025191.3	8/17/2001	8/17/2001	1914275	6/8/2016	Imerys Minerals, Ltd.
<u>P34.00004.ES</u>	Spain	1963128.2	8/17/2001	8/17/2001	EP1313811	10/12/2011	Imerys Minerals, Ltd.

P34.00004.IT	Turkey	1963128.2	8/17/2001	8/17/2001	2011/13049	10/12/2011	Imerys Minerals, Ltd.
P34.00004.US	United States	09/930,994	8/17/2001	8/17/2001	6,758,895	7/6/2004	Imerys Minerals, Ltd.
P53.00020.EP.BE	Belgium	3720729.7	4/24/2002	4/24/2003	1,497,362	6/21/2017	Imerys Minerals, Ltd.
P53.00020.EP.FR	France	3720729.7	4/24/2002	4/24/2003	1,497,362	6/21/2017	Imerys Minerals, Ltd.
P53.00020.EP.DE	Germany	603 50 341.1	4/24/2002	4/24/2003	1,497,362	6/21/2017	Imerys Minerals, Ltd.
P53.00020.EP.GB	Great Britain	3720729.7	4/24/2002	4/24/2003	1,497,362	6/21/2017	Imerys Minerals, Ltd.
P53.00020.EP.IT	Italy	3720729.7	4/24/2002	4/24/2003	1,497,362	6/21/2017	Imerys Minerals, Ltd.
P53.00020.EP.NL	Netherlands	3720729.7	4/24/2002	4/24/2003	1,497,362	6/21/2017	Imerys Minerals, Ltd.
P53.00020.EP.SE	Sweden	3720729.7	4/24/2002	4/24/2003	1,497,362	6/21/2017	Imerys Minerals, Ltd.
P53.00020.EP.TR	Turkey	3720729.7	4/24/2002	4/24/2003	1,497,362	6/21/2017	Imerys Minerals, Ltd.
P53.00020.US	United States	10/508994	4/24/2002	6/23/2005	7,476,704	1/13/2009	Imerys Minerals, Ltd.
P34.00033.CA	Canada	2483400	5/3/2002	1/29/2003	2483400	10/2/2012	Imerys Minerals, Ltd.
P34.00033.CN	China P.R.	3810053.3	5/3/2002	1/29/2003	ZL03810053.3	11/28/2007	Imerys Minerals, Ltd.
P34.00033.EP	European Patent Convention	3705762.7	5/3/2002	1/29/2003			Imerys Minerals, Ltd.
P34.00033.NO	Norway	20045316	5/3/2002	1/29/2003	334683	5/12/2014	Imerys Minerals, Ltd.

<u>P34.00033.US</u>	United States	10/511203	5/3/2002	8/22/2005	7,758,690	7/20/2010	Imerys Minerals, Ltd.
<u>P53.00048.EP</u>	European Patent Convention	4743140.8	7/1/2003	6/30/2004			Imerys Minerals, Ltd.
<u>P53.00068.BE</u>	Belgium	6726452.3	3/23/2005	3/21/2006	EP1863857	7/31/2013	Imerys Minerals, Ltd.
<u>P53.00068.FR</u>	France	6726452.3	3/23/2005	3/21/2006	EP1863857	7/31/2013	Imerys Minerals, Ltd.
<u>P53.00068.DE</u>	Germany	60200603761 9.7	3/23/2005	3/21/2006	EP1863857	7/31/2013	Imerys Minerals, Ltd.
<u>P53.00068.GR</u>	Greece	6726452.3	3/23/2005	3/21/2006	EP1863857	7/31/2013	Imerys Minerals, Ltd.
<u>P53.00068.NL</u>	Netherlands	6726452.3	3/23/2005	3/21/2006	EP1863857	7/31/2013	Imerys Minerals, Ltd.
<u>P53.00068.ES</u>	Spain	6726452.3	3/23/2005	3/21/2006	EP1863857	7/31/2013	Imerys Minerals, Ltd.
<u>P50.00078.EP</u>	European Patent Convention	6765071.3	7/22/2005	7/21/2006	1807369	10/17/2018	Imerys Minerals, Ltd.
<u>P50.00078.EP.FR</u>	France	6765071.3	7/22/2005	7/21/2006	1807369	10/17/2018	Imerys Minerals, Ltd.
<u>P50.00078.EP.DE</u>	Germany	6765071.3	7/22/2005	7/21/2006	1807369	10/17/2018	Imerys Minerals, Ltd.
<u>P50.00078.EP.GB</u>	Great Britain	6765071.3	7/22/2005	7/21/2006	1807369	10/17/2018	Imerys Minerals, Ltd.
<u>P33.00079.EP.DIV</u>	European Patent Convention	11185783.5	4/24/2006	10/19/2011			Imerys Minerals, Ltd.
<u>P33.00079.DE</u>	Germany	60200704385 8.6	4/24/2006	4/24/2007	2016139	11/11/2015	Imerys Minerals, Ltd.

P33.00079.GB	Great Britain	7732543.9	4/24/2006	4/24/2007	2016139	11/11/2015	Imerys Minerals, Ltd.
P33.00079.SE	Sweden	7732543.9	4/24/2006	4/24/2007	2016139	11/11/2015	Imerys Minerals, Ltd.
P33.00079.US.CON	United States	15/336932	4/24/2006	10/28/2016			Imerys Minerals, Ltd.
P50.00081.EP	European Patent Convention	6765063	5/5/2006	7/21/2006			Imerys Minerals, Ltd.
P50.00081.KR	Republic of Korea	2007-7012695	5/5/2006	7/21/2006	10-0904323	6/16/2009	Imerys Minerals, Ltd.
P53.00120.AR	Argentina	P090100885	3/13/2008	3/12/2009	AR 075258 B1	11/16/2016	Imerys Minerals, Ltd.
P53.00120.BR	Brazil	PI0909656.6	3/13/2008	3/13/2009	PI0909656-6	10/3/2017	Imerys Minerals, Ltd.
P53.00120.CA	Canada	2717262	3/13/2008	3/13/2009	2717262	6/28/2016	Imerys Minerals, Ltd.
P53.00120.CN	China P.R.	20098010879 2	3/13/2008	3/13/2009	ZL20098010 8792.1	6/25/2014	Imerys Minerals, Ltd.
P53.00120.EP	European Patent Convention	9700032.7	3/13/2008	3/13/2009			Imerys Minerals, Ltd.
P53.00120.IN	India	6009/DELNP/ 2010	3/13/2008	3/13/2009	286,797	8/29/2017	Imerys Minerals, Ltd.
P53.00120.JP	Japan	2010-550261	3/13/2008	3/13/2009	5379169	10/4/2013	Imerys Minerals, Ltd.
P53.00120.MX	Mexico	MX/a/2010/00 9852	3/13/2008	3/13/2009	328158	2/27/2015	Imerys Minerals, Ltd.

P53.00120.KR	Republic of Korea	10-2010-7020 189	3/13/2008	3/13/2009	10-1761544	7/20/2017	Imerys Minerals, Ltd.
P53.00120.SG	Singapore	201006050.7	3/13/2008	3/13/2009	164074	10/11/2013	Imerys Minerals, Ltd.
P53.00120.US	United States	12/922,371	3/13/2008	5/3/2011	9204631	12/8/2015	Imerys Minerals, Ltd.
P53.00120.US.CON	United States	14/961233	3/13/2008	12/7/2015	10015961	7/10/2018	Imerys Minerals, Ltd.
P53.00120.US.CON.DI V	United States	16/009686	3/13/2008	6/15/2018			Imerys Minerals, Ltd.
P50.00131.EP.BE	Belgium	10737616.2	7/14/2009	7/14/2010	2454332	3/14/2018	Imerys Minerals, Ltd.
P50.00131.EP.FR	France	10737616.2	7/14/2009	7/14/2010	2454332	3/14/2018	Imerys Minerals, Ltd.
P50.00131.EP.DE	Germany	60201004917 1.4	7/14/2009	7/14/2010	2454332	3/14/2018	Imerys Minerals, Ltd.
P50.00131.EP.GB	Great Britain	10737616.2	7/14/2009	7/14/2010	2454332	3/14/2018	Imerys Minerals, Ltd.
P50.00131.EP.IT	Italy	10737616.2	7/14/2009	7/14/2010	2454332	3/14/2018	Imerys Minerals, Ltd.
P50.00131.EP.NL	Netherlands	10737616.2	7/14/2009	7/14/2010	2454332	3/14/2018	Imerys Minerals, Ltd.
P50.00131.EP.ES	Spain	10737616.2	7/14/2009	7/14/2010	2454332	3/14/2018	Imerys Minerals, Ltd.
P50.00131.EP.SE	Sweden	10737616.2	7/14/2009	7/14/2010	2454332	3/14/2018	Imerys Minerals, Ltd.
P50.00131.EP.TR	Turkey	10737616.2	7/14/2009	7/14/2010	2454332	3/14/2018	Imerys Minerals, Ltd.
P50.00131.US	United States	13/384,045	7/14/2009	2/23/2012	9260613	2/16/2016	Imerys Minerals, Ltd.

<u>P53.00137.GB</u>	Great Britain	1112938.4	7/27/2011	7/27/2011	2493187	2/21/2018	Imerys Minerals, Ltd.
<u>P53.00137.US</u>	United States	14/234852	7/27/2011	7/25/2012	9433918	9/6/2016	Imerys Minerals, Ltd.
<u>P34.00147.BR</u>	Brazil	BR112014002 480.4	8/3/2011	7/27/2012			Imerys Minerals, Ltd.
<u>P34.00147.CA</u>	Canada	2,843,824	8/3/2011	7/27/2012			Imerys Minerals, Ltd.
<u>P34.00147.EP</u>	European Patent Convention	12756804.6	8/3/2011	7/27/2012			Imerys Minerals, Ltd.
<u>P34.00147.US</u>	United States	14/236872	8/3/2011	7/26/2012	9,783,931	10/10/2017	Imerys Minerals, Ltd.
<u>P34.00147.US.DIV</u>	United States	15/722609	8/3/2011	10/2/2017			Imerys Minerals, Ltd.
<u>P53.00148.AU</u>	Australia	2012274208	6/20/2011	6/19/2012	2012274208	8/25/2016	Imerys Minerals, Ltd.
<u>P53.00148.AT</u>	Austria	11290277	6/20/2011	6/20/2011	EP2537883	2/26/2014	Imerys Minerals, Ltd.
<u>P53.00148.BE</u>	Belgium	11290277	6/20/2011	6/20/2011	EP2537883	2/26/2014	Imerys Minerals, Ltd.
<u>P53.00148.BE2</u>	Belgium	13160881.2	6/20/2011	6/19/2012	EP2610290	1/14/2015	Imerys Minerals, Ltd.
<u>P53.00148.BR</u>	Brazil	BR112013032 619-0	6/20/2011	6/19/2012			Imerys Minerals, Ltd.
<u>P53.00148.BG</u>	Bulgaria	11290277	6/20/2011	6/20/2011	EP2537883	2/26/2014	Imerys Minerals, Ltd.
<u>P53.00148.CN</u>	China P.R.	20128004028 6.5	6/20/2011	6/19/2012			Imerys Minerals, Ltd.

P53.00148.HR	Croatia	11290277	6/20/2011	6/20/2011	EP2537883	2/26/2014	Imerys Minerals, Ltd.
P53.00148.CZ	Czech Republic	11290277	6/20/2011	6/20/2011	EP2537883	2/26/2014	Imerys Minerals, Ltd.
P53.00148.DK	Denmark	11290277	6/20/2011	6/20/2011	EP2537883	2/26/2014	Imerys Minerals, Ltd.
P53.00148.EP2	European Patent Convention	12727887.7	6/20/2011	6/19/2012			Imerys Minerals, Ltd.
P53.00148.EI	Finland	11290277	6/20/2011	6/20/2011	EP2537883	2/26/2014	Imerys Minerals, Ltd.
P53.00148.FR	France	13160881.2	6/20/2011	6/19/2012	EP2610290	1/14/2015	Imerys Minerals, Ltd.
P53.00148.FR	France	11290277	6/20/2011	6/20/2011	EP2537883	2/26/2014	Imerys Minerals, Ltd.
P53.00148.DE	Germany	13160881.2	6/20/2011	6/19/2012	EP2610290	1/14/2015	Imerys Minerals, Ltd.
P53.00148.DE	Germany	11290277	6/20/2011	6/20/2011	EP2537883	2/26/2014	Imerys Minerals, Ltd.
P53.00148.GB	Great Britain	11290277	6/20/2011	6/20/2011	EP2537883	2/26/2014	Imerys Minerals, Ltd.
P53.00148.GR	Greece	11290277	6/20/2011	6/20/2011	EP2537883	2/26/2014	Imerys Minerals, Ltd.
P53.00148.HU	Hungary	11290277	6/20/2011	6/20/2011	EP2537883	2/26/2014	Imerys Minerals, Ltd.
P53.00148.IN	India	2/MUMNP/201 4	6/20/2011	6/19/2012			Imerys Minerals, Ltd.
P53.00148.IE	Ireland	11290277	6/20/2011	6/20/2011	EP2537883	2/26/2014	Imerys Minerals, Ltd.
P53.00148.IT	Italy	13160881.2	6/20/2011	6/19/2012	EP2610290	1/14/2015	Imerys Minerals, Ltd.
P53.00148.IT	Italy	11290277	6/20/2011	6/20/2011	EP2537883	2/26/2014	Imerys Minerals, Ltd.

P53.00148.JP	Japan	2014-516310	6/20/2011	6/19/2012	6205352	9/8/2017	Imerys Minerals, Ltd.
P53.00148.NL	Netherlands	11290277	6/20/2011	6/20/2011	EP2537883	2/26/2014	Imerys Minerals, Ltd.
P53.00148.NL2	Netherlands	13160881.2	6/20/2011	6/19/2012	EP2610290	1/14/2015	Imerys Minerals, Ltd.
P53.00148.PL	Poland	11290277	6/20/2011	6/20/2011	EP2537883	2/26/2014	Imerys Minerals, Ltd.
P53.00148.PT	Portugal	11290277	6/20/2011	6/20/2011	EP2637883	2/26/2014	Imerys Minerals, Ltd.
P53.00148.KR	Republic of Korea	10-2014-7001 561	6/20/2011	6/19/2012			Imerys Minerals, Ltd.
P53.00148.RO	Romania	11290277	6/20/2011	6/20/2011	EP2637883	2/26/2014	Imerys Minerals, Ltd.
P53.00148.RU	Russian Federation	2013137813	6/20/2011	6/19/2012	RU2621339	6/2/2017	Imerys Minerals, Ltd.
P53.00148.RS	Serbia-Montenegro	11290277	6/20/2011	6/20/2011	EP2537883	2/26/2014	Imerys Minerals, Ltd.
P53.00148.SK	Slovak Republic	11290277	6/20/2011	6/20/2011	EP2537883	2/26/2014	Imerys Minerals, Ltd.
P53.00148.SI	Slovenia	11290277	6/20/2011	6/20/2011	EP2537883	2/26/2014	Imerys Minerals, Ltd.
P53.00148.ES	Spain	13160881.2	6/20/2011	6/19/2012	EP2610290	1/14/2015	Imerys Minerals, Ltd.
P53.00148.ES	Spain	11290277	6/20/2011	6/20/2011	EP2537883	2/26/2014	Imerys Minerals, Ltd.
P53.00148.SE	Sweden	11290277	6/20/2011	6/20/2011	EP2537883	2/26/2014	Imerys Minerals, Ltd.
P53.00148.CH	Switzerland	11290277	6/20/2011	6/20/2011	EP2537883	2/26/2014	Imerys Minerals, Ltd.
P53.00148.TR	Turkey	11290277	6/20/2011	6/20/2011	TR2014/057 56T4	2/26/2014	Imerys Minerals, Ltd.

<u>P53.00148.US</u>	United States	14/009312	6/20/2011	11/1/2013	9,969,868	5/15/2018	Imerys Minerals, Ltd.
P53.00148.US.DIV	United States	15/950643	6/20/2011	4/11/2018			Imerys Minerals, Ltd.
<u>P53.00152.EP</u>	European Patent Convention	13730064.6	6/18/2012	1/16/2015			Imerys Minerals, Ltd.
<u>P22.00153.AR</u>	Argentina	P120104005	10/25/2011	10/25/2012			Imerys Minerals, Ltd.
<u>P22.00153.BR</u>	Brazil	BR11 2014 009870 0	10/25/2011	10/25/2012			Imerys Minerals, Ltd.
<u>P22.00153.CN</u>	China P.R.	20128006432 6.X	10/25/2011	10/25/2012	2012800643 26.X	7/6/2016	Imerys Minerals, Ltd.
<u>P22.00153.EP</u>	European Patent Convention	12780272.6	10/25/2011	10/25/2012			Imerys Minerals, Ltd.
P22.00153.JP.DIV	Japan	2017-061419	10/25/2011	3/27/2017			Imerys Minerals, Ltd.
<u>P22.00153.KR</u>	Republic of Korea	10-2014-7013 806	10/25/2011	10/25/2012			Imerys Minerals, Ltd.
<u>P22.00157.BR</u>	Brazil	BR112014020 094-7	2/15/2012	2/15/2013			Imerys Minerals, Ltd.
P22.00157.EP.DIV	European Patent Convention	16173369.6	2/15/2012	2/15/2013			Imerys Minerals, Ltd.
<u>P22.00157.FR</u>	France	13705550.5	2/15/2012	2/15/2013	2814890	6/8/2016	Imerys Minerals, Ltd.

P22.00157.DE	Germany	13705550.5	2/15/2012	2/15/2013	6020130083 74.60	6/14/2016	Imerys Minerals, Ltd.
P22.00157.GB	Great Britain	13705550.5	2/15/2012	2/15/2013	2814890	6/8/2016	Imerys Minerals, Ltd.
P22.00157.IT	Italy	13705550.5	2/15/2012	2/15/2013	2814890	6/8/2016	Imerys Minerals, Ltd.
P22.00157.JP	Japan	2014-557120	2/15/2012	2/15/2013	6250563	12/1/2017	Imerys Minerals, Ltd.
P22.00157.JP.Div	Japan	2017-224713	2/15/2012	11/22/2017			Imerys Minerals, Ltd.
P22.00157.NL	Netherlands	13705550.5	2/15/2012	2/15/2013	2814890	6/8/2016	Imerys Minerals, Ltd.
P22.00157.SE	Sweden	13705550.5	2/15/2012	2/15/2013	2814890	6/8/2016	Imerys Minerals, Ltd.
P22.00157.US	United States	14/379164	2/15/2012	2/15/2013			Imerys Minerals, Ltd.
P34.00171.EP	European Patent Convention	13777323	10/10/2012	10/10/2013			Imerys Minerals, Ltd.
P53.00174.EP	European Patent Convention	15721805.8	5/6/2014	5/6/2015			Imerys Minerals, Ltd.
P53.00174.US	United States	15/309134	5/6/2014	5/6/2015			Imerys Minerals, Ltd.
P22.00184.BR	Brazil	BR112015022 667-1	3/14/2013	3/12/2014			Imerys Minerals, Ltd.
P22.00184.CN	China P.R.	20148002807 8	3/14/2013	3/12/2014	ZL 2014800280 77.8	4/17/2018	Imerys Minerals, Ltd.

<u>P22.00184.EP</u>	European Patent Convention	14711565.3	3/14/2013	3/12/2014			Imerys Minerals, Ltd.
<u>P22.00184.JP</u>	Japan	2015-562306	3/14/2013	3/12/2014			Imerys Minerals, Ltd.
<u>P22.00184.US</u>	United States	14/774947	3/14/2013	9/11/2015			Imerys Minerals, Ltd.
<u>P34.00187.BR</u>	Brazil	BR112017011 468-2	12/3/2014	12/3/2015			Imerys Minerals, Ltd.
<u>P34.00187.CA</u>	Canada	2969559	12/3/2014	12/3/2015			Imerys Minerals, Ltd.
<u>P34.00187.EP</u>	European Patent Convention	15804500.5	12/3/2014	12/3/2015			Imerys Minerals, Ltd.
<u>P34.00187.JP</u>	Japan	2017-529998	12/3/2014	12/3/2015			Imerys Minerals, Ltd.
<u>P34.00187.US</u>	United States	15/532661	12/3/2014	12/3/2015			Imerys Minerals, Ltd.
<u>P53.00190.EP</u>	European Patent Convention	15817524	12/30/2014	12/23/2015			Imerys Minerals, Ltd.
<u>P53.00190.US</u>	United States	15/541118	12/30/2014	12/23/2015			Imerys Minerals, Ltd.
<u>P34.00194.BR</u>	Brazil	BR112015030 202-5	6/7/2013	6/6/2014			Imerys Minerals, Ltd.
<u>P34.00194.CA</u>	Canada	2914546	6/7/2013	6/6/2014			Imerys Minerals, Ltd.

<u>P34.00194.EP</u>	European Patent Convention	14734411.3	6/7/2013	6/6/2014			Imerys Minerals, Ltd.
<u>P34.00194.JP</u>	Japan	2016-517626	6/7/2013	6/6/2014	6411475	10/5/2018	Imerys Minerals, Ltd.
<u>P34.00194.US</u>	United States	14/896317	6/7/2013	6/6/2014			Imerys Minerals, Ltd.
<u>P53.00195.BR</u>	Brazil	BR112016025 459-7	5/8/2014	5/7/2015			Imerys Minerals, Ltd.
<u>P53.00195.CN</u>	China P.R.	20158002391 2.3	5/8/2014	5/7/2015	106459510		Imerys Minerals, Ltd.
<u>P53.00195.EP</u>	European Patent Convention	15722571.5	5/8/2014	5/7/2015			Imerys Minerals, Ltd.
<u>P53.00195.JP</u>	Japan	2017-510780	5/8/2014	5/7/2015			Imerys Minerals, Ltd.
<u>P53.00195.US</u>	United States	15/309669	5/8/2014	5/7/2015	10087303	10/2/2018	Imerys Minerals, Ltd.
<u>P53.00201.EP</u>	European Patent Convention	14821190.7	12/23/2013	12/23/2014			Imerys Minerals, Ltd.
P53.00201.EP.DIV	European Patent Convention	17155616	12/23/2013	12/23/2014			Imerys Minerals, Ltd.
P53.00201.EP.DIV2	European Patent Convention	17155618.6	12/23/2013	12/23/2014			Imerys Minerals, Ltd.

<u>P53.00201.DE</u>	Germany	21 2014 000 234.8	12/23/2013	12/23/2014	21 2014 000 234	9/20/2016	Imerys Minerals, Ltd.
P53.00201.DE01	Germany	21 2014000243.5	12/23/2013	12/23/2014	21 2014 000243	9/9/2016	Imerys Minerals, Ltd.
P53.00201.DE02	Germany	21201400024 1.9	12/23/2013	12/23/2014	21 2014 000241	9/8/2016	Imerys Minerals, Ltd.
<u>P53.00201.JP</u>	Japan	2016-542713	12/23/2013	12/23/2014	6338672	5/18/2018	Imerys Minerals, Ltd.
P53.00201.JP.DIV	Japan	2016-162905	12/23/2013	12/23/2014	6348549	6/8/2018	Imerys Minerals, Ltd.
P53.00201.JP.DIV	Japan	2016-162906	12/23/2013	12/23/2014	6338625	5/18/2018	Imerys Minerals, Ltd.
<u>P53.00201.US</u>	United States	15/107396	12/23/2013	6/22/2016			Imerys Minerals, Ltd.
P53.00201.US.CON	United States	15/190908	12/23/2013	6/23/2016			Imerys Minerals, Ltd.
<u>P34.00208.BR</u>	Brazil	BR112016025 501-1	5/15/2014	5/15/2015			Imerys Minerals, Ltd.
<u>P34.00208.EP</u>	European Patent Convention	15723748.8	5/15/2014	5/15/2015			Imerys Minerals, Ltd.
<u>P34.00208.US</u>	United States	15/311005	5/15/2014	5/15/2015	9,868,876	1/16/2018	Imerys Minerals, Ltd.
<u>P22.00208.BR</u>	Brazil	BR112017028 148-1	6/30/2015	6/30/2016			Imerys Minerals, Ltd.
<u>P22.00208.EP</u>	European Patent Convention	16736589.9	6/30/2015	6/30/2016			Imerys Minerals, Ltd.

<u>P22.00209.IN</u>	India	20171704589 6	6/30/2015	6/30/2016			Imerys Minerals, Ltd.
<u>P22.00209.JP</u>	Japan	2017-568046	6/30/2015	6/30/2016			Imerys Minerals, Ltd.
<u>P22.00209.MX</u>	Mexico	MX/a/2018/00 0062	6/30/2015	6/30/2016			Imerys Minerals, Ltd.
<u>P22.00209.US</u>	United States	15/737113	6/30/2015	6/30/2016			Imerys Minerals, Ltd.
<u>P22.00211.EP</u>	European Patent Convention	14815840.5	12/23/2013	12/19/2014			Imerys Minerals, Ltd.
<u>P22.00211.JP</u>	Japan	2016-542222	12/23/2013	12/19/2014			Imerys Minerals, Ltd.
<u>P22.00211.US</u>	United States	15/107017	12/23/2013	12/19/2014			Imerys Minerals, Ltd.
<u>P22.00219.EP</u>	European Patent Convention	15722589.9	5/2/2014	5/1/2015			Imerys Minerals, Ltd.
<u>P22.00219.JP</u>	Japan	2016-566212	5/2/2014	5/1/2015			Imerys Minerals, Ltd.
<u>P22.00219.US</u>	United States	15/308312	5/2/2014	5/1/2015			Imerys Minerals, Ltd.
<u>P34.00235.BR</u>	Brazil	BR112016027 601-9	6/6/2014	6/8/2015			Imerys Minerals, Ltd.
<u>P34.00235.EP</u>	European Patent Convention	15728817.6	6/6/2014	6/8/2015			Imerys Minerals, Ltd.

P34.00235.ID	Indonesia	P-0020160835 7	6/6/2014	6/8/2015			Imerys Minerals, Ltd.
P34.00235.US	United States	15/316361	6/8/2014	6/8/2015			Imerys Minerals, Ltd.
P53.00236.EP	European Patent Convention	15777684	10/7/2014	10/7/2015			Imerys Minerals, Ltd.
P53.00236.JP	Japan	2017-518889	10/7/2014	10/7/2015			Imerys Minerals, Ltd.
P53.00236.US	United States	15/517104	10/7/2014	10/7/2015			Imerys Minerals, Ltd.
P53.00246.BR	Brazil	BR112017004 493-5	9/9/2014	9/9/2015			Imerys Minerals, Ltd.
P53.00246.CN	China P.R.	20158004826 0.9	9/9/2014	9/9/2015			Imerys Minerals, Ltd.
P53.00246.EP	European Patent Convention	15762589.8	9/9/2014	9/9/2015			Imerys Minerals, Ltd.
P53.00246.IN	India	20172700896 6	9/9/2014	9/9/2015			Imerys Minerals, Ltd.
P53.00246.JP	Japan	2017-513235	9/9/2014	9/9/2015			Imerys Minerals, Ltd.
P53.00246.KR	Republic of Korea	10-2017-7009 530	9/9/2014	9/9/2015			Imerys Minerals, Ltd.
P53.00246.US	United States	15/509770	9/9/2014	9/9/2015			Imerys Minerals, Ltd.

<u>P53.00247.BR</u>	Brazil	BR112017005 185-0	9/17/2014	9/15/2015			Imerys Minerals, Ltd.
<u>P53.00247.CN</u>	China P.R.	20158005772 0.4	9/17/2014	9/15/2015			Imerys Minerals, Ltd.
<u>P53.00247.EP</u>	European Patent Convention	15770588	9/17/2014	9/15/2015			Imerys Minerals, Ltd.
<u>P53.00247.JP</u>	Japan	2017-515221	9/17/2014	9/15/2015			Imerys Minerals, Ltd.
<u>P53.00247.KR</u>	Republic of Korea	10-2017-7010 129	9/17/2014	9/15/2015			Imerys Minerals, Ltd.
<u>P53.00247.US</u>	United States	15/512078	9/17/2014	9/15/2015			Imerys Minerals, Ltd.
<u>P22.00256.BR</u>	Brazil	BR112017014 715-7	1/9/2015	1/8/2016			Imerys Minerals, Ltd.
<u>P22.00256.EP</u>	European Patent Convention	16700665.9	1/9/2015	1/8/2016			Imerys Minerals, Ltd.
<u>P22.00256.IN</u>	India	20171702440 7	1/9/2015	1/8/2016			Imerys Minerals, Ltd.
<u>P22.00256.JP</u>	Japan	2017-536531	1/9/2015	1/8/2016			Imerys Minerals, Ltd.
<u>P22.00256.MX</u>	Mexico	Mx/A/2017/00 9027	1/9/2015	1/8/2016			Imerys Minerals, Ltd.
<u>P51.51000.EP</u>	European Patent Convention	16793871.1	11/10/2015	11/8/2016			Imerys Minerals, Ltd.

<u>P51.51000.US</u>	United States	15/774676	11/10/2015	11/8/2016			Imerys Minerals, Ltd.,
<u>P53.53001.AU</u>	Australia	2016339049	10/14/2015	10/14/2016			Imerys Minerals, Ltd.,
<u>P53.53001.BR</u>	Brazil	BR112017026 566-4	10/14/2015	10/14/2016			Imerys Minerals, Ltd.,
<u>P53.53001.CN</u>	China P.R.	20168003970 2.8	10/14/2015	10/14/2016			Imerys Minerals, Ltd.,
<u>P53.53001.EP</u>	European Patent Convention	16784263.2	10/14/2015	10/14/2016			Imerys Minerals, Ltd.,
<u>P53.53001.IN</u>	India	20172704417 3	10/14/2015	10/14/2016			Imerys Minerals, Ltd.,
<u>P53.53001.JP</u>	Japan	2018-502266	10/14/2015	10/14/2016			Imerys Minerals, Ltd.,
<u>P53.53001.KR</u>	Republic of Korea	10-2018-7003 668	10/14/2015	10/14/2016			Imerys Minerals, Ltd.,
<u>P53.53001.US</u>	United States	15/735633	10/14/2015	10/14/2016			Imerys Minerals, Ltd.,
<u>P53.00265.BR</u>	Brazil	BR112017020 037-6	3/27/2015	3/23/2016			Imerys Minerals, Ltd.,
<u>P53.00265.CN</u>	China P.R.	20168001801 4.3	3/27/2015	3/23/2016			Imerys Minerals, Ltd.,
<u>P53.00265.EP</u>	European Patent Convention	16713031.9	3/27/2015	3/23/2016			Imerys Minerals, Ltd.,
<u>P53.00265.JP</u>	Japan	2018-500871	3/27/2015	3/23/2016			Imerys Minerals, Ltd.,

<u>P53.00265.KR</u>	Republic of Korea	10-2017-7030 632	3/27/2015	3/23/2016			Imerys Minerals, Ltd.
<u>P53.00265.US</u>	United States	15/562366	3/27/2015	3/23/2016			Imerys Minerals, Ltd.
<u>P22.00268.BR</u>	Brazil	BR112017028 234-8	8/14/2015	8/12/2016			Imerys Minerals, Ltd.
<u>P22.00268.EP</u>	European Patent Convention	16753442.9	8/14/2015	8/12/2016			Imerys Minerals, Ltd.
<u>P22.00268.IN</u>	India	20171704544 4	8/14/2015	8/12/2016			Imerys Minerals, Ltd.
<u>P22.00268.JP</u>	Japan	2017-567407	8/14/2015	8/12/2016			Imerys Minerals, Ltd.
<u>P22.00268.MX</u>	Mexico	MX/a/2017/01 6640	8/14/2015	8/12/2016			Imerys Minerals, Ltd.
<u>P22.00268.US</u>	United States	15/736341	8/14/2015	8/12/2016			Imerys Minerals, Ltd.
<u>P53.00273.AU</u>	Australia	2016279884	6/15/2015	6/14/2016			Imerys Minerals, Ltd.
<u>P53.00273.BR</u>	Brazil	BR112017027 131-1	6/15/2015	6/14/2016			Imerys Minerals, Ltd.
<u>P53.00273.CN</u>	China P.R.	20168003503 6	6/15/2015	6/14/2016			Imerys Minerals, Ltd.
<u>P53.00273.EP</u>	European Patent Convention	16812224	6/15/2015	6/14/2016			Imerys Minerals, Ltd.

<u>P53.00273.JN</u>	India	20172704515 8	6/15/2015	6/14/2016			Imerys Minerals, Ltd.
<u>P53.00273.JP</u>	Japan	2018-518569	6/15/2015	6/14/2016			Imerys Minerals, Ltd.
<u>P53.00273.KR</u>	Republic of Korea	10-2018-7001 191	6/15/2015	6/14/2016			Imerys Minerals, Ltd.
<u>P53.00273.US</u>	United States	15/736996	6/15/2015	6/14/2016			Imerys Minerals, Ltd.
<u>P22.22000.BR</u>	Brazil	BR112017026 751-9	11/17/2015	11/7/2016			Imerys Minerals, Ltd.
<u>P22.22000.EP</u>	European Patent Convention	16794009.7	11/17/2015	11/7/2016			Imerys Minerals, Ltd.
<u>P22.22000.JN</u>	India	20171704544 2	11/17/2015	11/7/2016			Imerys Minerals, Ltd.
<u>P22.22000.JP</u>	Japan	2017-567408	11/17/2015	11/7/2016			Imerys Minerals, Ltd.
<u>P22.22000.MX</u>	Mexico	MX/a/2017/01 6642	11/17/2015	11/7/2016			Imerys Minerals, Ltd.
<u>P22.22000.US</u>	United States	15/736322	11/17/2015	11/7/2016			Imerys Minerals, Ltd.
<u>P23.00280.BR</u>	Brazil	BR112017027 7972	8/14/2015	8/12/2016			Imerys Minerals, Ltd.
<u>P23.00280.EP</u>	European Patent Convention	16753440.3	8/14/2015	8/12/2016			Imerys Minerals, Ltd.

P23.00280.IN	India	20173704431 8	8/14/2015	8/12/2016			Imerys Minerals, Ltd.
P23.00280.JP	Japan	2018-527022	8/14/2015	8/12/2016			Imerys Minerals, Ltd.
P23.00280.MX	Mexico	MX/a/2017/01 6764	8/14/2015	8/12/2016			Imerys Minerals, Ltd.
P23.00280.US	United States	15/736310	8/14/2015	8/12/2016			Imerys Minerals, Ltd.
P22.22004.BR	Brazil	BR112018004 555-1	9/18/2015	9/16/2016			Imerys Minerals, Ltd.
P22.22004.CN	China P.R.	20168005227 4	9/18/2015	9/16/2016			Imerys Minerals, Ltd.
P22.22004.EP	European Patent Convention	16781294	9/18/2015	9/16/2016			Imerys Minerals, Ltd.
P22.22004.IN	India	20182700996 2	9/18/2015	9/16/2016			Imerys Minerals, Ltd.
P22.22004.JP	Japan	2018-513580	9/18/2015	9/16/2016			Imerys Minerals, Ltd.
P22.22004.MX	Mexico	MX/a/2018/00 3319	9/18/2015	9/16/2016			Imerys Minerals, Ltd.
P22.22004.US	United States	15/760687	9/18/2015	9/16/2016			Imerys Minerals, Ltd.
P34.34000.BR	Brazil	BR112017027 022-6	9/30/2015	9/29/2016			Imerys Minerals, Ltd.
P34.34000.CA	Canada	2989264	9/30/2015	9/29/2016			Imerys Minerals, Ltd.

<u>P34.34000.CN</u>	China P.R.	20168003790 1.5	9/30/2015	9/29/2016			Imerys Minerals, Ltd.
<u>P34.34000.EP</u>	European Patent Convention	16787737.2	9/30/2015	9/29/2016			Imerys Minerals, Ltd.
<u>P34.34000.ID</u>	Indonesia	P-0020170989 9	9/30/2015	9/29/2016	2394957	12/6/2017	Imerys Minerals, Ltd.
<u>P34.34000.JP</u>	Japan	2017-566320	9/30/2015	9/29/2016			Imerys Minerals, Ltd.
<u>P34.34000.KR</u>	Republic of Korea	10-2017-7037 776	9/30/2015	9/29/2016			Imerys Minerals, Ltd.
<u>P34.34000.US</u>	United States	15/735964	9/30/2015	9/29/2016			Imerys Minerals, Ltd.
<u>P50.50008.CN</u>	China P.R.	20178001247 4.X	2/22/2016	2/22/2017			Imerys Minerals, Ltd.
<u>P50.50008.EP</u>	European Patent Convention	16305203.8	2/22/2016	2/22/2016			Imerys Minerals, Ltd.
<u>P50.50008.EP</u>	European Patent Convention	17706499.5	2/22/2016	2/22/2017			Imerys Minerals, Ltd.
<u>P50.50008.KR</u>	Republic of Korea	10-2018-7027 472	2/22/2016	2/22/2017			Imerys Minerals, Ltd.
<u>P50.50008.US</u>	United States	16/078289	2/22/2016	2/22/2017			Imerys Minerals, Ltd.
<u>P53.53008.AU</u>	Australia	2017263158	5/13/2016	5/12/2017			Imerys Minerals, Ltd.

<u>P53.53008.BR</u>	Brazil	BR112018071 783-5	5/13/2016	5/12/2017			Imerys Minerals, Ltd.
<u>P53.53008.CN</u>	China P.R.	20178002798 6.3	5/13/2016	5/12/2017			Imerys Minerals, Ltd.
<u>P53.53008.EP</u>	European Patent Convention	17724422.5	5/13/2016	5/12/2017			Imerys Minerals, Ltd.
<u>P53.53008.IN</u>	India	20182704299 8	5/13/2016	5/12/2017			Imerys Minerals, Ltd.
<u>P53.53008.JP</u>	Japan	2018-559933	5/13/2016	5/12/2017			Imerys Minerals, Ltd.
<u>P53.53008.WO</u>	Patent Cooperation Treaty	PCT/GB2017/ 051338	5/13/2016	5/12/2017			Imerys Minerals, Ltd.
<u>P53.53008.KR</u>	Republic of Korea	PCT/GB2017/ 051338	5/13/2016	5/12/2017			Imerys Minerals, Ltd.
<u>P53.53008.US</u>	United States	16/300081	5/13/2016	5/12/2017			Imerys Minerals, Ltd.
<u>P53.53003.AU</u>	Australia	2017208044	1/14/2016	1/13/2017			Imerys Minerals, Ltd.
<u>P53.53003.BR</u>	Brazil	BR112018013 740-5	1/14/2016	1/13/2017			Imerys Minerals, Ltd.
<u>P53.53003.CN</u>	China P.R.	20178000647 4.9	1/14/2016	1/13/2017			Imerys Minerals, Ltd.
<u>P53.53003.EP</u>	European Patent Convention	17700737.4	1/14/2016	1/13/2017			Imerys Minerals, Ltd.

<u>P53.53003.IN</u>	India	20182702686 8	1/14/2016	1/13/2017			Imerys Minerals, Ltd.
<u>P53.53003.JP</u>	Japan	2018-536288	1/14/2016	1/13/2017			Imerys Minerals, Ltd.
<u>P53.53003.KR</u>	Republic of Korea	10-2018-7023 335	1/14/2016	1/13/2017			Imerys Minerals, Ltd.
<u>P53.53003.US</u>	United States	16/070079	1/14/2016	1/13/2017			Imerys Minerals, Ltd.
<u>P22.22005.BR</u>	Brazil	BR112018014 897-0	2/1/2016	1/31/2017			Imerys Minerals, Ltd.
<u>P22.22005.EP</u>	European Patent Convention	17703089.7	2/1/2016	1/31/2017			Imerys Minerals, Ltd.
<u>P22.22005.IN</u>	India	20181703017 5	2/1/2016	1/31/2017			Imerys Minerals, Ltd.
<u>P22.22005.JP</u>	Japan	2018-540055	2/1/2016	1/31/2017			Imerys Minerals, Ltd.
<u>P22.22005.MX</u>	Mexico	MX/a/2018/00 9303	2/1/2016	1/31/2017			Imerys Minerals, Ltd.
<u>P22.22005.US</u>	United States	16/074575	2/1/2016	1/31/2017			Imerys Minerals, Ltd.
<u>P51.51012.WO</u>	Patent Cooperation Treaty	PCT/EP2018/ 068368	9/26/2017	7/6/2018			Imerys Minerals, Ltd.
<u>P34.34002.EP</u>	European Patent Convention	17275198.4	12/22/2017	12/22/2017			Imerys Minerals, Ltd.

<u>P34.34002.WO</u>	Patent Cooperation Treaty		12/22/2017				Imerys Minerals, Ltd.
<u>P11.00345.EP</u>	European Patent Convention	13728804.9	6/8/2012	7/6/2013			Imerys Minerals, Ltd.
<u>P11.00345.US</u>	United States	14/406473	6/8/2012	7/6/2013	9,943,820	4/17/2018	Imerys Minerals, Ltd.
<u>P22.00679.US</u>	United States	09/869,039	6/22/2001	6/22/2001	6,620,856	9/16/2003	Imerys Minerals, Ltd.
<u>P22.00691.AI</u>	Austria	99922271.4	5/21/1999	5/21/1999	E416226	12/3/2008	Imerys Minerals, Ltd.
<u>P22.00691.BE</u>	Belgium	99922271.4	5/21/1999	5/21/1999	998522	12/3/2008	Imerys Minerals, Ltd.
<u>P22.00691.FR</u>	France	99922271.4	5/21/1999	5/21/1999	998522	12/3/2008	Imerys Minerals, Ltd.
<u>P22.00691.DE</u>	Germany	99922271.4	5/21/1999	5/21/1999	69940007.4- 08	12/3/2008	Imerys Minerals, Ltd.
<u>P22.00691.GB</u>	Great Britain	99922271.4	5/21/1999	5/21/1999	998522	12/3/2008	Imerys Minerals, Ltd.
<u>P22.00691.IT</u>	Italy	99922271.4	5/21/1999	5/21/1999	998522	12/3/2008	Imerys Minerals, Ltd.
<u>P22.00691.NL</u>	Netherlands	99922271.4	5/21/1999	5/21/1999	998522	12/3/2008	Imerys Minerals, Ltd.
<u>P22.00691.SE</u>	Sweden	99922271.4	5/21/1999	5/21/1999	998522	12/3/2008	Imerys Minerals, Ltd.
<u>P22.00691.US</u>	United States	09/509,667	5/21/1999	3/31/2000	6,569,527 B1	5/27/2003	Imerys Minerals, Ltd.
<u>P30.00703.AU</u>	Australia	2000029233	2/26/1999	2/28/2000	754133	2/27/2003	Imerys Minerals, Ltd.

<u>P30.00703.BR</u>	Brazil	PI0008555-3	2/26/1999	2/28/2000	PI0008555-3	1/26/2010	Imerys Minerals, Ltd.
<u>P30.00703.BG</u>	Bulgaria	105956	2/26/1999	2/28/2000	65310	1/31/2008	Imerys Minerals, Ltd.
<u>P30.00703.CN</u>	China P.R.	99105011.8	2/26/1999	2/28/2000	ZL99105011, 8	7/30/2004	Imerys Minerals, Ltd.
<u>P30.00703.CN.DIV</u>	China P.R.	20031012436 0.4	2/26/1999	2/28/2000	ZL20031012 4360.4	10/11/2006	Imerys Minerals, Ltd.
<u>P30.00703.CZ</u>	Czech Republic	PV2001-3101	2/26/1999	2/28/2000	302906	12/7/2011	Imerys Minerals, Ltd.
<u>P30.00703.EP</u>	European Patent Convention	907756.1	2/26/1999	2/28/2000			Imerys Minerals, Ltd.
<u>P30.00703.IN</u>	India	IN/PCT/2001/ 01173/MUM	2/26/1999	2/28/2000	203950	10/18/2006	Imerys Minerals, Ltd.
<u>P30.00703.ID</u>	Indonesia	W0020010207 4	2/26/1999	2/28/2000	ID0014170	9/7/2004	Imerys Minerals, Ltd.
<u>P30.00703.UA</u>	Ukraine	2001096610	2/26/1999	2/28/2000	67834	7/15/2004	Imerys Minerals, Ltd.
<u>P30.00703.US</u>	United States	09/914,228	2/26/1999	2/28/2000	6602341	8/5/2003	Imerys Minerals, Ltd.
<u>P22.22007.AR</u>	Argentina	P180101046	4/24/2017	4/24/2018			Imerys Minerals, Ltd.
<u>P53.53006.AU</u>	Australia	2017255943	4/29/2016	4/27/2017			Imerys Minerals, Ltd.
<u>P53.53012.AU</u>	Australia	2017264834	5/13/2016	5/12/2017			Imerys Minerals, Ltd.
<u>P53.53004.BR</u>	Brazil	BR112018070 188-2	4/8/2016	4/6/2017			Imerys Minerals, Ltd.

<u>P53.53006.BR</u>	Brazil	BR112018071 623-5	4/29/2016	4/27/2017			Imerys Minerals, Ltd.
<u>P53.53012.BR</u>	Brazil	BR112018070 973-5	5/13/2016	5/12/2017			Imerys Minerals, Ltd.
<u>P53.53004.CN</u>	China P.R.	20178002091 0	4/8/2016	4/6/2017			Imerys Minerals, Ltd.
<u>P53.53006.CN</u>	China P.R.	20178002326 1.7	4/29/2016	4/27/2017			Imerys Minerals, Ltd.
<u>P53.53012.CN</u>	China P.R.	20178002800 6.1	5/13/2016	5/12/2017			Imerys Minerals, Ltd.
<u>P22.22008.EP</u>	European Patent Convention	17306749.7	12/12/2017	12/12/2017			Imerys Minerals, Ltd.
<u>P22.22010.EP</u>	European Patent Convention	18157926.9	2/21/2018	2/21/2018			Imerys Minerals, Ltd.
<u>P51.61015.EP</u>	European Patent Convention	17200178.6	11/6/2017	11/6/2017			Imerys Minerals, Ltd.
<u>P53.53004.EP</u>	European Patent Convention	17715180	4/8/2016	4/6/2017			Imerys Minerals, Ltd.
<u>P53.53006.EP</u>	European Patent Convention	17719617.7	4/29/2016	4/27/2017			Imerys Minerals, Ltd.

<u>P53.53012.EP</u>	European Patent Convention	17724423.3	5/13/2016	5/12/2017			Imerys Minerals, Ltd.
<u>P44.34001.FR</u>	France	8758574.1	5/18/2007	5/16/2008	2147154	8/12/2015	Imerys Minerals, Ltd. Topchim N.V.
<u>P44.34001.DE</u>	Germany	8758574.1	5/18/2007	5/16/2008	2147154	8/12/2015	Imerys Minerals, Ltd. Topchim N.V.
<u>P44.34001.GB</u>	Great Britain	8758574.1	5/18/2007	5/16/2008	2147154	8/12/2015	Imerys Minerals, Ltd. Topchim N.V.
<u>P53.53006.IN</u>	India	20181703886 1	4/29/2016	4/27/2017			Imerys Minerals, Ltd.
<u>P53.53012.IN</u>	India	PCT/GB2017/ 051340	5/13/2016	5/12/2017			Imerys Minerals, Ltd.
<u>P53.53004.JP</u>	Japan	2018-552702	4/8/2016	4/6/2017			Imerys Minerals, Ltd.
<u>P53.53006.JP</u>	Japan	2018-556417	4/29/2016	4/27/2017			Imerys Minerals, Ltd.
<u>P53.53012.JP</u>	Japan	PCT/GB2017/ 051340	5/13/2016	5/12/2017			Imerys Minerals, Ltd.
<u>P22.22007.WO</u>	Patent Cooperation Treaty	PCT/EP2018/ 060437	4/24/2017	4/24/2018			Imerys Minerals, Ltd.
<u>P22.22008.WO</u>	Patent Cooperation Treaty		12/12/2017				Imerys Minerals, Ltd.
<u>P51.51009.WO</u>	Patent Cooperation Treaty	PCT/EP2017/ 079709	4/28/2017	11/20/2017			Imerys Minerals, Ltd.

<u>P51.51014.WO</u>	Patent Cooperation Treaty	PCT/EP2018/ 078524	10/20/2017	10/18/2018			Imerys Minerals, Ltd.
<u>P51.51015.WO</u>	Patent Cooperation Treaty	PCT/EP2018/ 080248	11/6/2017	11/6/2018			Imerys Minerals, Ltd.
<u>P53.53012.WO</u>	Patent Cooperation Treaty	PCT/GB2017/ 051340	5/13/2016	5/12/2017			Imerys Minerals, Ltd.
<u>P53.53020.WO</u>	Patent Cooperation Treaty	PCT/EP2018/ 059479	4/13/2017	4/12/2018			Imerys Minerals, Ltd.
<u>P53.53004.KR</u>	Republic of Korea	10-2018-7032 109	4/8/2016	4/6/2017			Imerys Minerals, Ltd.
<u>P53.53006.KR</u>	Republic of Korea	10-2018-7032 882	4/29/2016	4/27/2017			Imerys Minerals, Ltd.
<u>P53.53012.KR</u>	Republic of Korea	PCT/GB2017/ 051340	5/13/2016	5/12/2017			Imerys Minerals, Ltd.
<u>P51.51014.US</u>	United States	62/574914	10/20/2017	10/20/2017			Imerys Minerals, Ltd.
<u>P53.53004.US</u>	United States	16/092082	4/8/2016	4/6/2017			Imerys Minerals, Ltd.
<u>P53.53006.US</u>	United States	16/096882	4/29/2016	4/27/2017			Imerys Minerals, Ltd.
<u>P53.53012.US</u>	United States	16/301153	5/13/2016	5/12/2017			Imerys Minerals, Ltd.

Imerys Ref.: Imerys Minerals, Ltd.

Imerys Ref.: Imerys Minerals, Ltd.

ASSIGNMENT

THIS DEED OF ASSIGNMENT is made on 17th, day of December, 2018.

BETWEEN

- (1) IMERYS MINERALS, LTD. whose registered office is at Par Moor Centre Par Moor Road, Par PL24 2SQ, United Kingdom (the "Assignor"); and
- (2) IMERTECH SAS whose registered office is at 43 Quai de Grenelle, Paris, France 75015 (the "Assignee")

BACKGROUND:

- (A) The Assignor has agreed to assign and hereby assigns the Intellectual Property Rights described in Schedule 1 to the Assignee on the terms set out below.

AGREEMENT:

The parties **AGREE** as follows:

1. Definitions

In this Assignment unless the context otherwise requires:

"Intellectual Property Rights" means all of Assignor's patents, patent applications, utility models, registered designs, and any and all copyright, database rights, moral rights, design right, and all similar property rights subsisting in or arising out such patents, patent applications, utility models and registered designs, including those identified in in Schedule 1;

"Know-how" means know-how, research data, trial results, designs, knowledge, trade secrets and all other information, documents and material recorded in whatever form or medium relating to the Intellectual Property Rights or the Assignee's business and including any information disclosed in a patent application;

2. Assignment

Pursuant to and in consideration of the Transfer of Legacy Intellectual Property Rights Agreement previously signed between the Assignee and the Assignor, and the sum of £1, now paid by the Assignee to the Assignor (receipt of which the Assignor hereby acknowledges) the Assignor assigns to the Assignee with full title guarantee free from all and any charges or other third party rights all his right, title and interest in the Intellectual Property Rights and Know How, together with all rights of action, remedies, powers and benefits relating to any of the Intellectual Property Rights and Know How, including the right to apply for a patent application at the European Patent Office and in any other country or patent office of the world, including the right to claim priority from any patent application filed for the Invention, including all provisionals, non-provisionals, divisionals, continuations, continuations in part, reexaminations, reissues and all other applications for any patent that shall be filed, issued or granted in

Imerys Ref.: Imerys Minerals, Ltd.

any country on such inventions, including but not limited to utility models, designs, design patents, as well as envelope soleau and like rights of exclusion; and the right to sue for damages and other relief for infringement in any of the Intellectual Property rights and Know How (to the extent that Assignor has such rights in the case of co-ownership), whether taking place before or after the date of this Assignment.

3. Confidentiality

The Assignor shall keep and procure to be kept secret and confidential the Know-how and other confidential information acquired from or through the Assignee and will not use nor disclose the same save with the prior written consent of the Assignee.

4. Further Assurance

The Assignor undertakes that, at the request and expense of the Assignee, it will do all acts and things (including, without limitation, making declarations and oaths) and execute all documents that may be reasonably necessary under the law of any country for completing the transfer to the Assignee of the full right, title and interest to any of the rights assigned by clause 2 or to record the assignment at any country's national patent office or other official body as may be required.

At the request of the Assignee, the Assignor shall (at the Assignee's expense) provide all assistance to the Assignee which may be necessary in connection with bringing or defending any proceedings relating to any of the rights assigned by clause 2.

5. Applicable Law and Jurisdiction

This Assignment and any dispute or claim arising out of or in connection with it shall be governed by and construed in accordance with the laws of France and all disputes and claims arising out of or relating to this Assignment shall be subject to the exclusive jurisdiction of the Commercial Court of Paris, to which the parties irrevocably submit.

IN WITNESS of the above the Assignor and Assignee have signed executed this Assignment on the date written at the head of this Assignment.

ASSIGNOR NAME: IMERYS MINERALS, LTD.

Signature: _____

Printed Name: _____

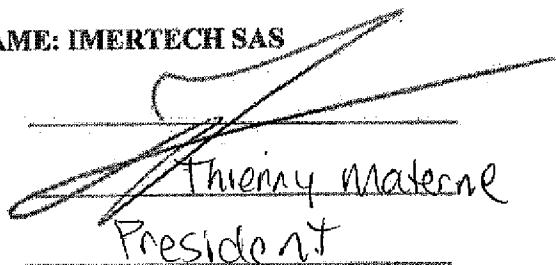
Corporate Title: _____

ASSIGNEE NAME: IMERTECH SAS

Signature: _____

Printed Name: _____

Corporate Title: _____


Thierry Materné
President