

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5570508

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
Name	Execution Date
OMYA-HOLDING AG	10/19/2016

**RECEIVING PARTY DATA**

Name:	FIBERLEANTM TECHNOLOGIES LIMITED
Street Address:	PAR MOOR ROAD
Internal Address:	PAR MOOR CENTRE
City:	PAR CORNWALL
State/Country:	ENGLAND
Postal Code:	PL24 2SQ

**PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16381484

**CORRESPONDENCE DATA**

Fax Number: (603)433-6372

*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: 603-433-6300

Email: patent@pierceatwood.com

Correspondent Name: RAYMOND G. ARNER

Address Line 1: 100 SUMMER STREET, SUITE 2200

Address Line 2: PIERCE ATWOOD LLP

Address Line 4: BOSTON, MASSACHUSETTS 02110

**ATTORNEY DOCKET NUMBER:** FBL-001US 04

**NAME OF SUBMITTER:** RAYMOND G. ARNER

**SIGNATURE:** /Raymond G. Arner/

**DATE SIGNED:** 06/13/2019

**Total Attachments: 13**

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PATENT

REEL: 049459 FRAME: 0919

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## CONFIRMATORY PATENT ASSIGNMENT

This confirmatory patent assignment (the "Assignment") is effective as of 30 April 2016 and confirms the prior assignment by and between Omya-Holding AG, a company organized and existing under the laws of Switzerland having its registered office at Baslerstrasse 42, 4665 Oftringen (the "Assignor") and FiberleanTM Technologies Limited, a private limited company organized under the laws of England and Wales having a registered office at Par Moore Center, Par Moore Road, Par, Cornwall, PL24 2SQ (the "Assignee"), for recordation purposes in the United States Patent and Trademark Office and any other applicable governmental entity or registrar (including in any applicable foreign or international office or register) to record the Assignee as the assignee of the Assignor's entire right, title and interest in, to, and under the patent applications and patents listed on Schedule 1 hereto.

### WITNESSETH

**WHEREAS**, the Assignor, which was the owner of certain patent applications and patents ("Patents"), pursuant to an Asset Purchase Agreement dated 30 April 2016, by and among the Assignor, Omya International AG, Imerys Minerals Limited and the Assignee (the "Asset Purchase Agreement") and an assignment of Intellectual Property Rights (which definition for the avoidance of doubt includes the Patents) between the Assignor and the Assignee dated 30 April 2016 (the "IPR Assignment") assigned the Patents to the Assignee, including without limitation all renewals, related continuations, continuations-in-part, divisional, reissues, reexaminations, substitutions and extensions thereof (the "Assigned Patents"), and goodwill therein.

**NOW, THEREFORE**, pursuant to and for the consideration set out in the Asset Purchase Agreement, the receipt and sufficiency of which is hereby acknowledged, the Assignor, hereby confirms the sale, assignment, transfer and delivery to the Assignee, of all right, title and interest in, to and under the Assigned Patents and all other rights associated therewith, including, without limitation:

- (i) the absolute entitlement to any registrations granted pursuant to any of the patent applications comprised in the Assigned Patents;
- (ii) all benefits, privileges, causes of action and remedies relating thereto throughout the world, including without limitation, all of Assignor's rights to: (a) apply for and maintain registrations, renewals and/or extensions thereof; (b) claim priority under United States law, European law or international convention; and (c) grant licenses or other interests therein; and
- (iii) the right to bring, make, oppose, defend or appeal proceedings, claims or actions, and obtain relief and to retain any damages recovered, in respect of any infringement, or any other cause of action arising from ownership, of any of the Assigned Patents whether occurring before, on or after the date of this Assignment.

EXECUTION COPY

(collectively, the "Assigned Rights"), and the Assignee hereby confirms the acceptance of the foregoing assignment of the Assigned Patents, including, without limitation, the Assigned Rights.

The terms of the Asset Purchase Agreement are incorporated herein by reference and capitalized terms used herein and not otherwise defined shall have the meaning ascribed thereto in the Asset Purchase Agreement.

Nothing in this Assignment shall limit, expand or otherwise affect any of the representations, warranties or covenants contained in the Asset Purchase Agreement and IPR Assignment. To the extent any term or provision herein is inconsistent with the Asset Purchase Agreement and/or the IPR Assignment, the terms and provisions of the Asset Purchase Agreement and/or the IPR Assignment shall control. In the event of conflict between the Asset Purchase Agreement and the IPR Assignment, the latter shall take precedent.

The Assignor confirms that it shall, from time to time, execute and deliver to the Assignee such additional instruments, documents, conveyances or assurances and take such other action as shall be necessary or otherwise reasonably requested by the Assignee to confirm and assure the rights and obligations provided for in this Assignment and the Asset Purchase Agreement and/or the IPR Assignment and render effective the consummation of the transactions contemplated hereby and thereby including, but not limited to the execution of all non-provisionals, divisionals, continuations, continuations-in-part, substitutes, reexaminations, reissues, and all other patent applications on the invention; execute all lawful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the Assignor relating to the invention and the history hereof; and generally do everything possible which the Assignee shall consider necessary for vesting title to the Assigned Rights in the Assignee, and for securing, maintaining and enforcing proper protection for the Assigned Rights.

This Assignment may be executed simultaneously in counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument.

This Assignment shall be governed and construed in accordance with the laws of England and Wales and shall be binding on the heirs, assigns, representatives and successors of the Assignor and extending to the successors, assigns, and nominees of the Assignee. The courts of England shall have exclusive jurisdiction to settle any dispute or claim arising out this Assignment, or its subject matter or formation.

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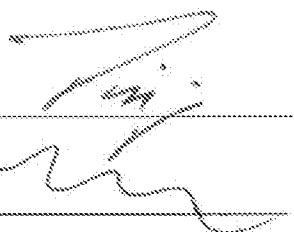
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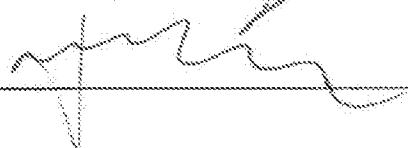
**IN WITNESS WHEREOF**, the Assignor and the Assignee have caused this Assignment to be executed and delivered as a deed by their duly authorized officers as of the date first above written.

Executed as a deed by )

**Omya-Holding AG** )

on being signed by )

Candide Villiger (Head of Banking Relations) 

Bernhard Studer (General Counsel) 

In the presence of:

Name of witness:

Roxana Spitzer

Signature of witness:



Occupation:

Assistant to the General Counsel

Executed as a deed by )

**Fiberlean™ Technologies Limited** )

on being signed by )

In the presence of:

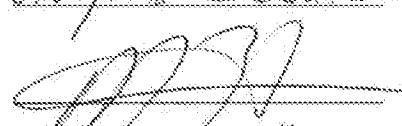
Name of witness:

Clayton Bernandes

} Part Perry Nykjaer  
CEO  
Director

  
Clayton Bernandes  
Chief Financial Officer  
Fiberlean Technologies Ltd

Signature of witness:



Address:

One Cavendish, UK

Occupation:

CFO

FIRST LEGALIZATION OFFICIAL

The undersigned Beat Fässli, Notary Public at Oftringen (Switzerland)

attests

1. Omya-Holding AG (Omya-Holding SA) (Omya-Holding Ltd), with headquarters at CH-4665 Oftringen, a corporation organised and existing according to the laws of Switzerland, is listed in the Register of Companies of the Canton of Argovia under the Registry-Nr. CHE-103.519.977.
2. Omya-Holding AG, with headquarters at CH-4665 Oftringen, is being represented by Villiger Candide, Head of Banking Relations, born May 1, 1962, a Swiss citizen residing at CH-5040 Schöftland (Switzerland), identified by Swiss Passport Nr. X3733846, issued on October 1, 2013,  
authorized to sign with joint signature.
3. Candide Villiger recognized the signature on this document as his own.

CH-4665 Oftringen, the 18<sup>th</sup> day of October 2016



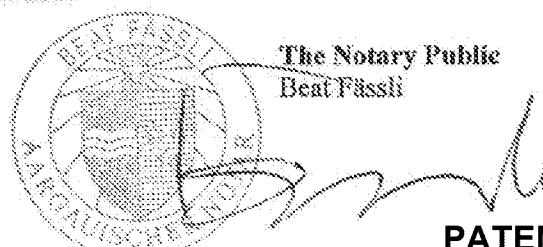
SECOND LEGALIZATION OFFICIAL

The undersigned Beat Fässli, Notary Public at Oftringen (Switzerland)

attests

1. Omya-Holding AG (Omya-Holding SA) (Omya-Holding Ltd), with headquarters at CH-4665 Oftringen, a corporation organised and existing according to the laws of Switzerland, is listed in the Register of Companies of the Canton of Argovia under the Registry-Nr. CHE-103.519.977.
2. Omya-Holding AG, with headquarters at CH-4665 Oftringen, is being represented by Studer Dr. Bernhard, General Counsel, born August 13, 1961, a Swiss citizen residing at CH-4622 Egerkingen (Switzerland), identified by Swiss Passport Nr. X3115164, issued on July 6, 2012,  
authorized to sign with joint signature.
3. Dr. Bernhard Studer recognized the signature on this document as his own.

CH-4665 Oftringen, the 19<sup>th</sup> day of October 2016



EXECUTION COPY

Schedule 1  
List of Intellectual Property

{W5618813.3}

PATENT  
REEL: 049459 FRAME: 0925

Title: PROCESS FOR THE PRODUCTION OF NANOFIBRILLAR CELLULOSE GELS  
 Client: Fiberlum Technologies Ltd.  
 Owner:  
 Disclosure Status: Filed  
 Disclosure Date:  
 Attorneys: RA

Client Reference	Country	Sub Case	Case Type	Status	Application Number	Filing Date	Patent Number	Issue Date	Expiration Date
	Argentina	01	ORD	Pending	PI0100973	26-Mar-2010			
	Austria	01	EPC	Granted	09156703.2	30-Mar-2009	2236545	27-Aug-2014	30-Mar-2029
	Belgium	01	EPC	Granted	09156703.2	30-Mar-2009	2236545	27-Aug-2014	30-Mar-2029
	Brazil	01	PCT	Pending	PI0126114	30-Mar-2010			
	Canada	01	PCT	Granted	2755495	30-Mar-2010	2755495	03-May-2016	30-Mar-2030
	Chile	01	ORD	Pending	289-2010	29-Mar-2010			
	China (People's Republic)	01	PCT	Granted	20108815262.5	30-Mar-2010	2130108815262.5	19-Mar-2014	30-Mar-2030
	Colombia	01	PCT	Granted	11-128-034	30-Mar-2010	1176	27-Sep-2013	30-Mar-2030
	Costa Rica	01	PCT	Pending	13-264-621				
	Czech Republic	01	EPC	Granted	09156703.2	30-Mar-2009	2236545	27-Aug-2014	30-Mar-2029
	Denmark	01	EPC	Granted	09156703.2	30-Mar-2009	2236545	27-Aug-2014	30-Mar-2029
	European Patent Convention	01	PRI	Granted	09156703.2	30-Mar-2009	2236545	27-Aug-2014	30-Mar-2029
	European Patent Convention	01	PCT	Published	10711423.3	30-Mar-2010			
	European Patent Convention	01	DIV	Published	14175451.5	30-Mar-2009			
	Finland	01	EPC	Granted	09156703.2	30-Mar-2009	2236545	27-Aug-2014	30-Mar-2029
	France	01	EPC	Granted	09156703.2	30-Mar-2009	2236545	27-Aug-2014	30-Mar-2029
	Germany	01	EPC	Granted	09156703.2	30-Mar-2009	2236545	27-Aug-2014	30-Mar-2029
	Hongkay	01	EPC	Granted	09156703.2	30-Mar-2009	2236545	27-Aug-2014	30-Mar-2029
	Iraq	01	PCT	Pending	2046303NRP2011	30-Mar-2010			
	Indonesia	01	PCT	Published	W40 2011 03474	30-Mar-2010			
	Italy	01	EPC	Granted	09156703.2	30-Mar-2009	2236545	27-Aug-2014	30-Mar-2029
	Japan	01	PCT	Granted	2012-502647	30-Mar-2010	5894525	04-Mar-2016	30-Mar-2030
	India	02	PCT	Pending	2015-159028	13-Aug-2015			
	Korea Republic of	01	PCT	Published	10-2011-702315	30-Mar-2010			
	Malaysia	01	PCT	Pending	PI2011004631	30-Mar-2010			
	Netherlands	01	EPC	Granted	09156703.2	30-Mar-2009	2236545	27-Aug-2014	30-Mar-2029
	Norway	01	EPC	Granted	09156703.2	30-Mar-2009	2236545	27-Aug-2014	30-Mar-2029
	Patent Cooperation Treaty	01	ORD	NAT PHASE	PICTER160154233	30-Mar-2010			
	Poland	01	EPC	Granted	09156703.2	30-Mar-2009	2236545	27-Aug-2014	30-Mar-2029

PATENT

REEL: 049459 FRAME: 0926

Case Number: EP141011						
Country Name	Case Type	App Number	Filing Date			
Portugal	01 EPC	Granted	09156703.2	30-Mar-2009	2236545	27-Aug-2014
Russian Federation	03 PCT	Granted	201143834	16-Apr-2010	2530867	10-Oct-2014
Russian Federation	02 DIV	Pending	2014130594	23-Apr-2014		
Slovakia	01 EPC	Granted	09156703.2	30-Mar-2009	2236545	27-Aug-2014
Slovenia	03 EPC	Granted	09156703.2	30-Mar-2009	2236545	27-Aug-2014
Spain	01 EPC	Granted	09156703.2	30-Mar-2009	2236545	27-Aug-2014
Sweden	01 EPC	Granted	09156703.2	30-Mar-2009	2236545	27-Aug-2014
Switzerland	03 EPC	Granted	09156703.2	30-Mar-2009	2236545	27-Aug-2014
Taiwan	01 ORD	Published	99100562	30-Mar-2010		
Taiwan	02 DIV	Published	114124236			
Turkey	03 EPC	Granted	09156703.2	30-Mar-2009	2236545	27-Aug-2014
Ukraine	01 PCT	Pending	201113083	30-Mar-2010		
Ukraine	02 PCT	Pending	2011501645	27-Jan-2013		
United Kingdom	01 EPC	Granted	09156703.2	30-Mar-2009	2236545	27-Aug-2014
United States of America	01 PRO	Expired	61212073	06-Apr-2009		06-Apr-2009
United States of America	02 PCT	Granted	15138646	14-Oct-2011	8871046	07-May-2012
United States of America	03 CON	Published	144474749	02-Sep-2014		30-Mar-2009
Uruguay	01 ORD	Published	32332	05-Apr-2010		

## Priorities:

Country Name	Case Type	App Number	Filing Date
European Patent Convention	PRO	09156703.2	30-Mar-2009
United States of America	PRO	61212073	06-Apr-2009

PATENT

REEL: 049459 FRAME: 0927

**Title:** PROCESS FOR THE PRODUCTION OF NANOFIBRILLAR CELLULOSE SUSPENSIONS  
**Court:** Federal Circuit  
**Owner:**  
 Client: Fiberlum Technologies Ltd.

**Disclosure Status:** Filed  
**Disclosure Date:**

**Attorneys:** RA

Client Reference	Country	Sub Case	Case Type	Status	Application Number	Filing Date	Patent Number	Issue Date	Expiration Date
	Argentina	01	ORD	Pending	PI0110972			30-Mar-2019	30-Mar-2029
	Austria	01	EPC	Granted	09156683.6	30-Mar-2009	2236664	16-Dec-2015	30-Mar-2029
	Belgium	01	EPC	Granted	09156683.6	30-Mar-2009	2236664	16-Dec-2015	30-Mar-2029
	Brazil	01	PCT	Pending	PI013180.9	30-Mar-2010			
	Canada	01	PCT	Allowed	2755493				
	Chile	01	ORD	Pending	2792010				
	China (People's Republic)	01	PCT	Abandoned	27952011				
	Colombia	01	PCT	Granted	II-128.07	30-Mar-2010	5396	14-May-2014	30-Mar-2030
	Colombia	02	DIV	Pending	13-264.636	11-Aug-2013			30-Mar-2030
	Czech Republic	01	EPC	Granted	09156683.6	30-Mar-2009	2236664	16-Dec-2015	30-Mar-2029
	Denmark	01	EPC	Granted	09156683.6	30-Mar-2009	2236664	16-Dec-2015	30-Mar-2029
	European Patent Convention	01	PCT	Granted	09156683.6	30-Mar-2009	2236664	16-Dec-2015	30-Mar-2029
	European Patent Convention	02	PCT	Published	10113884.4	30-Mar-2010			
	European Patent Convention	03	DIV	Published	14175471.3	30-Mar-2009			
	Finland	01	EPC	Granted	09156683.6	30-Mar-2009	2236664	16-Dec-2015	30-Mar-2029
	France	01	EPC	Granted	09156683.6	30-Mar-2009	2236664	16-Dec-2015	30-Mar-2029
	Germany	01	EPC	Granted	09156683.6	30-Mar-2009	2236664	16-Dec-2015	30-Mar-2029
	Hungary	01	EPC	Granted	09156683.6	30-Mar-2009	2236664	16-Dec-2015	30-Mar-2029
	India	01	PCT	Pending	20182013482011	30-Mar-2010			
	Indonesia	01	PCT	Pending	W02021105469	30-Mar-2010			
	Italy	01	EPC	Granted	09156683.6	30-Mar-2009	2236664	16-Dec-2015	30-Mar-2029
	Japan	01	PCT	Granted	2012-5036446	30-Mar-2010	5666553	19-Dec-2014	30-Mar-2030
	Korea, Republic of	01	PCT	Pending	10-2011-7025318	30-Mar-2010			
	Malaysia	01	PCT	Granted	PI2011084632	30-Mar-2010	MY-157010	15-Apr-2016	30-Mar-2030
	Mongolia	02	PCT	Pending	PI2011084632	30-Mar-2010			
	Netherlands	01	EPC	Granted	09156683.6	30-Mar-2009	2236664	16-Dec-2015	30-Mar-2029
	Norway	01	EPC	Granted	09156683.6	30-Mar-2009	2236664	16-Dec-2015	30-Mar-2029

**PATENT**

REEL: 049459 FRAME: 0928

Case Number: EP14002						
Priority	Patent Cooperation Treaty	Office	Case Type	App Number	Fil Date	Issue Date
Portugal	01	EPC	Granted	09156683.6	30-Mar-2009	2236664
Russian Federation	01	PCT	Granted	201143811	30-Mar-2010	2549323
Russian Federation	02	DIV	Pending	2015109771	19-Mar-2015	
Slovakia	01	EPC	Granted	09156683.6	30-Mar-2009	2236664
Slovenia	01	EPC	Granted	09156683.6	30-Mar-2009	2236664
Spain	01	EPC	Granted	09156683.6	30-Mar-2009	2236664
Sweden	01	EPC	Granted	09156683.6	30-Mar-2009	2236664
Switzerland	01	EPC	Granted	09156683.6	30-Mar-2009	2236664
Taiwan	01	ORD	Granted	099109580	30-Mar-2010	1524279
Turkey	01	EPC	Granted	09156683.6	30-Mar-2009	2236664
Ukraine	01	PCT	Granted	201112383	30-Mar-2010	108983
United Kingdom	01	EPC	Granted	09156683.6	30-Mar-2009	2236664
United States of America	01	PRO	Expired	61212408	06-Apr-2009	
United States of America	02	PCT	Granted	13113847	14-Oct-2011	8871057
United States of America	03	CON	Published	14474705	02-Sep-2014	
Uruguay	01	ORD	Pending	32533		30-Mar-2029

**Priority:**

Country Name	Case Type	App Number	Fil Date
European Patent Convention	PCT	09156683.6	30-Mar-2009
United States of America	PRO	61212408	06-Apr-2009

**PATENT****REEL: 049459 FRAME: 0929**

Title: PROCESS FOR THE MANUFACTURE OF STRUCTURED MATERIALS USING NANOFIBRILLAR CELLOULOSE GELS

Client: Fiberlum Technologies Ltd.

Owner:

Disclosure Status: Filed

Disclosure Date:

Attorneys: RA

Case Reference	Country	SubCase	Case Type	Status	Application Number	Filing Date	Patent Number	Issue Date	Expiration Date
	Australia	01	PCT	Granted	2011246522	26-Apr-2011	2011246522	09-Oct-2014	26-Apr-2031
	Australia	02	DIV	Granted	2014227494	18-Sep-2014		19-May-2016	26-Apr-2031
	Austria	01	EPC	Granted	101611653	27-Apr-2010	2386682	19-Mar-2014	27-Apr-2030
	Belgium	01	EPC	Granted	101611653	27-Apr-2010	2386682	19-Mar-2014	27-Apr-2030
	Brazil	01	PCT	Pending	112012024632				
	Canada	01	PCT	Pending	2790135	26-Apr-2011			
	Chile	01	PCT	Granted	2005-2012	26-Apr-2011	2011246522	22-Apr-2016	26-Apr-2031
	China (People's Republic)	01	PCT	Granted	201180020953.9	26-Apr-2011	21120118020953.9	02-Dec-2015	26-Apr-2031
	Colombia	01	PCT	Granted	12-182.197	26-Apr-2011	20215	24-Apr-2015	26-Apr-2031
	Croatia	01	EPC	Granted	101611653	27-Apr-2010	2386682	19-Mar-2014	27-Apr-2030
	Czech Republic	01	EPC	Granted	101611653	27-Apr-2010	2386682	19-Mar-2014	27-Apr-2030
	Denmark	01	EPC	Granted	101611653	27-Apr-2010	2386682	19-Mar-2014	27-Apr-2030
	European Patent Convention	01	PCT	Granted	101611653	27-Apr-2010	2386682	19-Mar-2014	27-Apr-2030
	European Patent Convention	01	PCT	Published	11716257.8	26-Apr-2011			
	Finland	01	EPC	Granted	101611653	27-Apr-2010	2386682	19-Mar-2014	27-Apr-2030
	France	01	EPC	Granted	101611653	27-Apr-2010	2386682	19-Mar-2014	27-Apr-2030
	Germany	01	EPC	Granted	101611653	27-Apr-2010	2386682	19-Mar-2014	27-Apr-2030
	Hungary	01	EPC	Granted	101611653	27-Apr-2010	2386682	19-Mar-2014	27-Apr-2030
	India	01	PCT	Pending	2004/XCN/INP/2012	26-Apr-2011			
	Indonesia	01	PCT	Pending	W-09/2012/04369	26-Apr-2011			
	Italy	01	EPC	Granted	101611653	27-Apr-2010	2386682	19-Mar-2014	27-Apr-2030
	Japan	01	PCT	Allowed	2013-506621	26-Apr-2011			
	Japan	02	DIV	Pending	2016-124359	23-Jun-2016			
	Korea, Republic of	01	PCT	Pending	10-2012-703074	26-Apr-2011			
	Mexico	01	PCT	Granted	MX/2012/012450	26-Apr-2011	331956	29-Mar-2015	26-Apr-2031
	Mexico	02	DIV	Pending	MX/2013/009653	27-Jul-2015			
	Netherlands	01	EPC	Granted	101611653	27-Apr-2010	2386682	19-Mar-2014	27-Apr-2030
	New Zealand	01	PCT	Granted	603759	26-Apr-2011	603759	21-Mar-2014	26-Apr-2031
	Norway	01	EPC	Granted	101611653	27-Apr-2010	2386682	19-Mar-2014	27-Apr-2030
	Patent Cooperation Treaty	01	ORD	MAP PHASE	PCT/EP10/056542	26-Apr-2011			

PATENT

REEL: 049459 FRAME: 0930

Case Number: F11-2013						
Country Name	Case Type	App Number	Filing Date			
Barbados	00 EPC	Granted	10161165.3	27-Apr-2010	2386682	19-Mar-2014 27-Apr-2010
Portugal	00 EPC	Granted	10161165.3	27-Apr-2010	2386682	19-Mar-2014 27-Apr-2010
Russian Federation	01 PCT	Granted	2012150422	26-Apr-2011	2376472	11-Apr-2016 26-Apr-2011
Slovakia	00 EPC	Granted	10161165.3	27-Apr-2010	2386682	19-Mar-2014 27-Apr-2010
Slovenia	00 EPC	Granted	10161165.3	27-Apr-2010	2386682	19-Mar-2014 27-Apr-2010
Spain	00 EPC	Granted	10161165.3	27-Apr-2010	2386682	19-Mar-2014 27-Apr-2010
Sweden	00 EPC	Granted	10161165.3	27-Apr-2010	2386682	19-Mar-2014 27-Apr-2010
Switzerland	00 EPC	Granted	10161165.3	27-Apr-2010	2386682	19-Mar-2014 27-Apr-2010
Taiwan	01 ORD	Published	100114646	27-Apr-2011	2386682	19-Mar-2014 27-Apr-2010
Turkey	00 EPC	Granted	10161165.3	27-Apr-2010	2386682	19-Mar-2014 27-Apr-2010
United Kingdom	00 EPC	Granted	10161165.3	27-Apr-2010	2386682	19-Mar-2014 27-Apr-2010
United States of America	01 PRO	Expired	6134375	04-May-2010	2386682	19-Mar-2014 27-Apr-2010
United States of America	02 PCT	Published	13764633	16-Jan-2013		
United States of America	03 CON	Published	14781848			
United States of America	04 ORD	Pending	33336	27-Apr-2011		
<b>Priorities:</b>						
Country Name	Case Type	App Number	Filing Date			
European Patent Convention	PR1	10161165.3	27-Apr-2010			
United States of America	PRO	8134375	04-May-2010			

**PATENT**

REEL: 049459 FRAME: 0931

Title: PROCESS FOR THE PRODUCTION OF GEL-BASED COMPOSITE MATERIALS  
 Client: Fiberbeam Technologies Ltd.

Owner:

Disclosure Status: Filed  
 Disclosure Date:  
 Attorney: RA

Client Reference	Country	SubCase	Case Type	Status	Application Number	Filing Date	Patent Number	Issue Date	Expiration Date
	Australia	01	PCT	Granted	2011246521	26-Apr-2011	2011246521	02-Jun-2014	26-Apr-2031
	Austria	00	EPC	Granted	10161173.9	27-Apr-2010	2386683	19-Mar-2014	27-Apr-2030
	Belgium	00	EPC	Granted	10161173.9	27-Apr-2010	2386683	19-Mar-2014	27-Apr-2030
	Brazil	01	PCT	Pending	BR112012027636	26-Apr-2011			
	Canada	01	PCT	Pending	2796132	26-Apr-2011			
	Chile	01	PCT	Pending	239442012	26-Apr-2011			
	China (People's Republic)	01	PCT	Granted	2011800289492	26-Apr-2011	212011800289492	30-Sep-2015	26-Apr-2031
	Colombia	03	PCT	Granted	12182195	26-Apr-2011		23-Sep-2014	26-Apr-2031
	Czech Republic	00	EPC	Granted	10161173.9	27-Apr-2010	2386683	19-Mar-2014	27-Apr-2030
	Denmark	00	EPC	Granted	10161173.9	27-Apr-2010	2386683	19-Mar-2014	27-Apr-2030
	European Patent Convention	00	EPC	Granted	10161173.9	27-Apr-2010	2386683	19-Mar-2014	27-Apr-2030
	European Patent Convention	01	PCT	Published	11719493	26-Apr-2011			
	Egypt	00	EPC	Granted	10161173.9	27-Apr-2010	2386683	19-Mar-2014	27-Apr-2030
	France	00	EPC	Granted	10161173.9	27-Apr-2010	2386683	19-Mar-2014	27-Apr-2030
	Germany	00	EPC	Granted	10161173.9	27-Apr-2010	2386683	19-Mar-2014	27-Apr-2030
	Hungary	00	EPC	Granted	10161173.9	27-Apr-2010	2386683	19-Mar-2014	27-Apr-2030
	India	01	PCT	Pending	24244ARUMNP/2012	26-Apr-2011			
	Indonesia	01	PCT	Pending	W-002012014368	26-Apr-2011			
	Italy	00	EPC	Granted	10161173.9	27-Apr-2010	2386683	19-Mar-2014	27-Apr-2030
	Japan	01	PCT	Allowed	2013-50620	26-Apr-2011			
	Japan	02	DIV	Pending	2016-124701	23-Jun-2016			
	Korea, Republic of	01	PCT	Pending	10-2012-7030744	26-Apr-2011			
	Malaysia	01	PCT	Pending	PI201200747	26-Apr-2011			
	Mexico	01	PCT	Granted	MXAA2012012449	26-Apr-2011	334726	21-Mar-2015	26-Apr-2031
	Netherlands	00	EPC	Granted	10161173.9	27-Apr-2010	2386683	19-Mar-2014	27-Apr-2030
	New Zealand	01	PCT	Granted	603756	26-Apr-2011	603756	21-Mar-2014	26-Apr-2031
	Norway	00	EPC	Granted	10161173.9	27-Apr-2010	2386683	19-Mar-2014	27-Apr-2030
	Patent Cooperation Treaty	01	ORD	NAT PHASE	PCT/EP11056540	26-Apr-2011			
	Poland	00	EPC	Granted	10161173.9	27-Apr-2010	2386683	19-Mar-2014	27-Apr-2030
	Portugal	00	EPC	Granted	10161173.9	27-Apr-2010	2386683	19-Mar-2014	27-Apr-2030

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REEL: 049459 FRAME: 0932

Case Number: F11-2016						
	Country Name	Case Type	App Number	Fil Date	Pub Date	Priority
Singapore	01 PCT	Granted	2012156141	26-Apr-2011	2566834	27-Apr-2013
Slovakia	03 EPC	Granted	10161173.9	27-Apr-2010	2386683	19-Mar-2014
Slovenia	03 EPC	Granted	10161173.9	27-Apr-2010	2386683	19-Mar-2014
Spain	03 EPC	Granted	10161173.9	27-Apr-2010	2386683	19-Mar-2014
Sweden	03 EPC	Granted	10161173.9	27-Apr-2010	2386683	19-Mar-2014
Switzerland	03 EPC	Granted	10161173.9	27-Apr-2010	2386683	19-Mar-2014
Taiwan	03 ORD	Pending	100114241	25-Apr-2011		27-Apr-2030
Turkey	03 EPC	Granted	10161173.9	27-Apr-2010	2386683	19-Mar-2014
United Kingdom	03 EPC	Granted	10161173.9	27-Apr-2010	2386683	19-Mar-2014
United States of America	03 PRO	Expired	61343774	04-May-2010		04-May-2031
United States of America	02 PCT	Published	13640513	16-Jan-2013		
Uruguay	01 ORD	Pending	33,385	27-Apr-2011		
Vietnam	01 PCT	Pending	1-2012-453429	26-Apr-2011		

## Priorities:

Country Name	Case Type	App Number	Fil Date
European Patent Convention	PRO	10161173.9	27-Apr-2010
United States of America	PRO	61343774	04-May-2010

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