

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4537142

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
SEQUENCE:	2

CONVEYING PARTY DATA

Name	Execution Date
ALTAIRNANO, INC. (FORMERLY KNOWN AS ALTAIR NANOMATERIALS INC.)	08/04/2017

RECEIVING PARTY DATA

Name:	ALSHER TITANIA LLC
Street Address:	1768 EAST 25TH STREET
City:	CLEVELAND
State/Country:	OHIO
Postal Code:	44114

PROPERTY NUMBERS Total: 6

Property Type	Number
Patent Number:	6375923
Patent Number:	6440383
Patent Number:	6548039
Patent Number:	7482304
Patent Number:	7407690
Application Number:	10712768

CORRESPONDENCE DATA

Fax Number: (202)628-8844

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: 202-624-2500

Email: afield@crowell.com

Correspondent Name: CROWELL & MORING LLP

Address Line 1: P.O. BOX 14300

Address Line 4: WASHINGTON, D.C. 20044-4300

ATTORNEY DOCKET NUMBER:	115280.0000001
NAME OF SUBMITTER:	ALISON J. FIELD
SIGNATURE:	/Alison J. Field/
DATE SIGNED:	08/04/2017

Total Attachments: 9

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ASSIGNMENT OF PATENTS

THIS PATENT ASSIGNMENT AGREEMENT (this "Assignment") is made as of August 4, 2017, by and between Altairnano, Inc. (formerly known as Altair Nanomaterials Inc.), a Nevada corporation, located at 204 Edison Way, Reno, Nevada ("Assignor") and AISher Titania LLC, a Delaware limited liability company, having its principal place of business at 1768 East 25th Street, Cleveland, Ohio 44114 ("Assignee").

RECITALS

A. Assignor and Assignee are parties to that certain Patent and Know-How Transfer Agreement, dated as of August 4, 2017 (the "Purchase Agreement"), pursuant to which Assignor has agreed to sell, convey, assign, transfer and deliver to Assignee all of Assignor's right, title and interest, if any, in and to the Transferred Patents (as defined in the Purchase Agreement) and inventions claimed therein as more fully described on Exhibit A.

B. Assignor desires to transfer, and Assignee desires to accept such transfer of, all such right, title, and interest, if any, in and to the Patents.

NOW, THEREFORE, in consideration of the transactions contemplated in the Purchase Agreement and the covenants and promises herein contained, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereto agree as follows:

1. Assignment. Assignor does hereby sell, convey, assign, transfer and deliver unto Assignee, all its rights, title and interest in, to and under the Patents, and Assignee hereby accepts such sale, conveyance, assignment, transfer, and delivery. Assignor further sells, conveys, assigns, transfers and delivers to Assignee all rights of Assignor to bring an action, whether at law or in equity, against any third party for infringement or other misuse of any of the Patents, including the right to bring an action for past, present and future infringement, dilution, or other misappropriation, or misuse, and all rights to recover damages, profits and injunctive relief for infringement, dilution, or other misappropriation, or misuse, and Assignee hereby accepts such sale, conveyance, assignment, transfer, and delivery. Assignor further sells, conveys, assigns, transfers and delivers to Assignee all rights of priority in the United States or any other jurisdiction that are based upon the filing date of any of the Patents and that are created by any law, treaty or international convention.

2. Incorporation of Purchase Agreement. This Assignment is executed pursuant to the Purchase Agreement and is entitled to the benefits and subject to the provisions thereof. Assignor and Assignee acknowledge and agree that the representations, warranties, covenants and agreements contained in the Purchase Agreement shall not be superseded hereby but shall remain in full force and effect to the full extent provided therein. This Assignment is not intended to convey any greater or lesser rights to, or place any greater or lesser burden on, any of the parties than are described in or contemplated by the Purchase Agreement, and in the event the terms of this Assignment conflict with the terms of the Purchase Agreement, the terms of the Purchase Agreement shall govern.

3. Successors and Assigns. All of the terms and provisions of this Assignment will apply to, be binding in all respects upon and inure to the benefit of the parties hereto and their respective successors and permitted assigns.

4. Governing Law; Jurisdiction. This Agreement shall be governed by and construed in accordance with the laws of the State of Delaware, without reference to conflict of laws rules and provisions. Each party hereby irrevocably consents to the exclusive jurisdiction and venue of the courts of Delaware in connection with any action or proceeding brought by either party against the other party arising out of or relating to this Agreement.

5. Counterparts. This Assignment may be executed in counterparts, each of which shall be considered one and the same agreement, and shall become effective when all such counterparts have been signed by each of the parties and delivered to the other parties. Any signature delivered by a facsimile machine shall be binding to the same extent as an original signature page with regard to this Assignment or any amendments hereof, subject to the terms of this Assignment. A party that delivers a signature page in this manner agrees to later deliver an original counterpart signature page to the other parties.

[signature page follows]

BY ASSIGNEE:

ALSHER TATIANA LLC

By: [Signature]

LEON A. Poloff
Name (Print)

President
Title

8-4-17
Date

State of District of Columbia
County of _____) ss:
_____)

This 4th day of August 2017, before me personally came the above-named duly authorized representative of Assignee personally known to me as the individual who executed the foregoing Assignment on behalf of the Assignee, who acknowledged to me that he had the authority to execute same for the purposes therein set forth.

9/30/19
My commission expires:



EXHIBIT A

U.S. Patents and Applications

Lead Attorney	Docket Number	Client Ref No	Case Type	Status	App. Number	App. Date	Patent Number	Issue Date	Title	Published App. number	Application publishing date	Expiration date
PN	10225-11	A1	Regular	Issued	09/500,207	2/7/2000	6,375,923	4/23/2002	PROCESSING TITANIFEROUS ORE TO TITANIUM DIOXIDE PIGMENT			2/7/2020
PN	10225-9	A2	Regular	Issued	09/503,365	2/14/2000	6,440,383	8/27/2002	PROCESSING AQUEOUS TITANIUM CHLORIDE SOLUTIONS TO ULTRAFINE TITANIUM DIOXIDE			2/7/2020
PN	10225-10	A3	Regular	Issued	09/503,636	2/14/2000	6,548,039	4/15/2003	PROCESSING AQUEOUS TITANIUM SOLUTIONS TO TITANIUM DIOXIDE PIGMENT			2/7/2020
PN	10225-57	A28	Regular	Abandoned	10/712,761	11/13/2000			PROCESS TO MAKE RUTILE PIGMENT FROM AQUEOUS TITANIUM			

Lead Attorney	Docket Number	Licensor Ref	Country	Filing Type	SubStatus	Application Number	Application Date	Patent Number	Issue Date	Title
PN	10225-60	A1	Germany	PCT/EPC Application	Issued	939873.6	6/14/2000	60010702	5/12/2004	PROCESSING TITANIFEROUS ORE TO TITANIUM DIOXIDE PIGMENT
PN	10225-32	A1	Canada	Patent Cooperation Treaty	Issued	2377261	6/14/2000	2377261	3/30/2010	PROCESSING TITANIFEROUS ORE TO TITANIUM DIOXIDE PIGMENT
PN	10225-31	A1	Australia	Patent Cooperation Treaty	Issued	54887/00	6/14/2000	770209	6/3/2004	PROCESSING TITANIFEROUS ORE TO TITANIUM DIOXIDE PIGMENT
PN	10225-12	A1	Patent Cooperation Treaty	Patent Cooperation Treaty	Completed	US00/16363	6/14/2000			PROCESSING TITANIFEROUS ORE TO TITANIUM DIOXIDE PIGMENT
PN	10225-28	A2	Australia	Patent Cooperation Treaty	Issued	19128/01	6/14/2000	769225	5/6/2004	PROCESSING TITANIFEROUS ORE TO TITANIUM DIOXIDE PIGMENT
PN	10225-30	A2	European Patent Convention	PCT/EPC Application	Issued	982051.5	6/14/2000	1194380	11/10/2004	PROCESSING TITANIFEROUS ORE TO TITANIUM DIOXIDE PIGMENT
PN	10225-85	A2	Germany	PCT/EPC Application	Issued	982051.5	6/14/2000	60015763	11/10/2004	PROCESSING TITANIFEROUS ORE TO TITANIUM DIOXIDE PIGMENT
PN	10225-86	A2	Finland	PCT/EPC Application	Issued	982051.5	6/14/2000	1194380	11/10/2004	PROCESSING TITANIFEROUS ORE TO TITANIUM DIOXIDE PIGMENT
PN	10225-88	A2	Great Britain	PCT/EPC Application	Issued	982051.5	6/14/2000	1194380	11/10/2004	PROCESSING TITANIFEROUS ORE TO TITANIUM DIOXIDE PIGMENT
PN	10225-87	A2	France	PCT/EPC Application	Issued	982051.5	6/14/2000	1194380	11/10/2004	PROCESSING TITANIFEROUS ORE TO TITANIUM DIOXIDE PIGMENT

Lead Attorney	Docket Number	Licensor Ref	Country	Filing Type	SubStatus	Application Number	Application Date	Patent Number	Issue Date	Title
PN	10225-29	A2	Canada	Patent Cooperation Treaty	Issued	2375623	6/14/2000	2375623	5/12/2009	PROCESSING AQUEOUS TITANIUM SOLUTIONS TO ULTRAFINE TITANIUM DIOXIDE PIGMENT
PN	10225-13	A2	Patent Cooperation Treaty	Completed	US00/16355	6/14/2000				PROCESSING AQUEOUS TITANIUM CHLORIDE SOLUTIONS TO ULTRAFINE TITANIUM DIOXIDE PIGMENT
PN	10225-27	A3	European Patent Convention	PCT/EPC Application	Issued	939870.2	6/14/2000	1194378	8/18/2004	PROCESSING AQUEOUS TITANIUM SOLUTIONS TO TITANIUM DIOXIDE PIGMENT
PN	10225-92	A3	Finland	PCT/EPC Application	Issued	939870.2	6/14/2000	1194378	8/18/2004	PROCESSING AQUEOUS TITANIUM SOLUTIONS TO TITANIUM DIOXIDE PIGMENT
PN	10225-93	A3	France	PCT/EPC Application	Issued	939870.2	6/14/2000	1194378	8/18/2004	PROCESSING AQUEOUS TITANIUM SOLUTIONS TO TITANIUM DIOXIDE PIGMENT
PN	10225-94	A3	Germany	PCT/EPC Application	Issued	939870.2	6/14/2000	60013134.3	8/18/2004	PROCESSING AQUEOUS TITANIUM SOLUTIONS TO TITANIUM DIOXIDE PIGMENT
PN	10225-25	A3	Australia	Patent Cooperation Treaty	Issued	54886/00	6/14/2000	776394	12/23/2004	PROCESSING AQUEOUS TITANIUM SOLUTIONS TO TITANIUM DIOXIDE PIGMENT
PN	10225-95	A3	Great Britain	PCT/EPC Application	Issued	939870.2	6/14/2000	1194378	8/18/2004	PROCESSING AQUEOUS TITANIUM SOLUTIONS TO TITANIUM DIOXIDE PIGMENT
PN	10225-26	A3	Canada	Patent Cooperation Treaty	Issued	2377241	6/14/2000	2377241	10/13/2009	PROCESSING AQUEOUS TITANIUM SOLUTIONS TO TITANIUM DIOXIDE PIGMENT
PN	10225-14	A3	Patent Cooperation Treaty	Completed	US00/16360	6/14/2000				PROCESSING AQUEOUS TITANIUM SOLUTIONS TO TITANIUM DIOXIDE PIGMENT

Lead Attorney	Docket Number	Licensor Ref	Country	Filing Type	SubStatus	Application Number	Application Date	Patent Number	Issue Date	Title
PN 34	10225-	A3	Japan	Patent Cooperation Treaty	Issued	2001-516860	6/14/2000	4653916	12/24/2010	PROCESSING AQUEOUS TITANIUM SOLUTIONS TO TITANIUM DIOXIDE PIGMENT
PN 97	10225-	A28	Patent Cooperation Treaty	Patent Cooperation Treaty	Completed	PCT/US2004/037421	11/10/2004			PROCESS TO MAKE RUTILE PIGMENT FROM AQUEOUS TITANIUM SOLUTIONS
PN 101	10225-	A28	Taiwan	National	Issued	93134709	11/12/2004	I359112	03/01/2012	PROCESS TO MAKE RUTILE PIGMENT FROM AQUEOUS TITANIUM SOLUTIONS