

## TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

ETAS ID: TM423487

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT		
<b>NATURE OF CONVEYANCE:</b>	RELEASE OF SECURITY INTEREST		
<b>CONVEYING PARTY DATA</b>			
<b>Name</b>	<b>Formerly</b>	<b>Execution Date</b>	<b>Entity Type</b>
PNC Bank, National Association		04/10/2017	National Banking Association: UNITED STATES
<b>RECEIVING PARTY DATA</b>			
<b>Name:</b>	Microseismic, Inc.		
<b>Street Address:</b>	10777 Westheimer, Suite 500		
<b>City:</b>	Houston		
<b>State/Country:</b>	TEXAS		
<b>Postal Code:</b>	77042		
<b>Entity Type:</b>	Corporation: DELAWARE		
<b>PROPERTY NUMBERS Total: 15</b>			
<b>Property Type</b>	<b>Number</b>	<b>Word Mark</b>	
<b>Registration Number:</b>	4059227	MICROSEISMIC PASSIVE MONITORING, ACTIVE	
<b>Registration Number:</b>	3992602	WE LISTEN	
<b>Registration Number:</b>	3992593	THE UNCONVENTIONAL SEISMIC RESOURCE	
<b>Registration Number:</b>	4156422	MICROSEISMIC	
<b>Registration Number:</b>	4340117	MICROSEISMIC	
<b>Registration Number:</b>	3251416	FRACSTAR	
<b>Registration Number:</b>	2985317	PSET	
<b>Registration Number:</b>	4692940	FAT FRACTURE	
<b>Registration Number:</b>	4629378	EVENTPICK	
<b>Registration Number:</b>	4629377	PRODUCTIVE-SRV	
<b>Registration Number:</b>	4622664	BURIEDARRAY	
<b>Registration Number:</b>	3930326	GLOBAL MICROSEISMIC SERVICES	
<b>Registration Number:</b>	4933227	PERMINDEX	
<b>Registration Number:</b>	4933226	FRACRX	
<b>Registration Number:</b>	4645002	FRACSTAR	
<b>CORRESPONDENCE DATA</b>			
<b>Fax Number:</b>	6175236850		
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent</i>			

OP \$390.00 4059227

TRADEMARK

*using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.*

**Phone:** 617-523-2700  
**Email:** susan.dinicola@hklaw.com,cody.cravens@hklaw.com  
**Correspondent Name:** Holland & Knight LLP  
**Address Line 1:** 10 St. James Avenue  
**Address Line 4:** Boston, MASSACHUSETTS 02116

<b>NAME OF SUBMITTER:</b>	Susan C. DiNicola
<b>SIGNATURE:</b>	/Susan C. DiNicola/
<b>DATE SIGNED:</b>	04/12/2017

**Total Attachments: 5**  
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source=Microseismic\_IPRelease#page4.tif  
source=Microseismic\_IPRelease#page5.tif

**RELEASE OF SECURITY INTEREST IN INTELLECTUAL PROPERTY**

**THIS RELEASE OF SECURITY INTEREST IN INTELLECTUAL PROPERTY** (this "Release") is made this 10<sup>th</sup> day of April, 2017, by PNC BANK, NATIONAL ASSOCIATION, as Agent ("Agent").

**WHEREAS**, reference is made to a certain Second Amended and Restated Intellectual Property Security Agreement dated as of May 12, 2015 and recorded with the United States Patent and Trademark Office on May 20, 2015, at **Reel 035682 Frame 0891** and **Reel 5520 Frame 0871** (as amended, restated, amended and restated, supplemented and/or modified to date, the "IP Security Agreement"), by MICROSEISMIC, INC., a Delaware corporation, and MICROSEISMIC (CANADA) ULC, a Canadian corporation (individually, each a "Grantor"), in favor of Agent. Capitalized terms used herein and not otherwise defined shall have the meanings ascribed thereto in the IP Security Agreement.

**WHEREAS**, under the IP Security Agreement, each Grantor granted to Agent, for the benefit of itself and the Lenders, a continuing security interest in all of the right, title and interest of such Grantor in and to the Collateral (as defined in the IP Security Agreement) identified therein, including, but not limited to, the Patents and Trademarks set forth on Schedule A and Schedule B, respectively, attached hereto.

**NOW THEREFORE**, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Agent hereby (i) terminates the IP Security Agreement, (ii) releases any and all liens on, and its security interest in and to the Collateral arising under the IP Security Agreement, including, but not limited to, the Patents and Trademarks set forth on Schedule A and Schedule B, respectively, attached hereto, and (iii) authorizes the recordation of this Release by Grantor or its designee with the United States Patent and Trademark Office.

This Release shall be governed by and construed in accordance with the laws of the State of New York without regard to conflicts of law principles.

**[SIGNATURE PAGE FOLLOWS]**

IN WITNESS WHEREOF, Agent has caused this Release to be duly executed by its authorized officer as of the day and year first written above.

PNC BANK, NATIONAL ASSOCIATION

By: 

Name: Pete Martinez

Title: Senior Vice President

## SCHEDULE A

### PATENTS AND PATENT LICENSES

SERIAL NO.	FILING DATE	PUBL. NO.	PUBL. DATE	PATENT NO.	ISSUE DATE
11/522,183	09/15/2006	2008/0068928	03/20/2008	7,663,970	02/16/2010
12/485,081	06/16/2009	2010/0315902	12/16/2010	8,218,394	07/10/2012
12/485,084	06/16/2009	2010/0315903	12/16/2010	8,064,288	11/22/2011
12/051,962	03/20/2008	2009/0238040	09/24/2009	7,986,587	07/26/2011
12/542,784	08/18/2009	2011/0044131	02/24/2011	7,978,563	07/12/2011
12/017,010	01/19/2008	2009/0185448	07/23/2009	8,902,710	12/2/2014
12/127,205	05/27/2008	2009/0296525	12/03/2009	ABANDONED	N/A
12/407,894	03/20/2009	2010/0238765	09/23/2010	ABANDONED	N/A
12/576,589	10/09/2009	2011/0085415	04/14/2011	ABANDONED	N/A
12/615,783	11/10/2009	2011/0110191	05/12/2011	8,901,710	N/A
12/753,919	04/05/2010	2011/0242934	10/06/2011	8,705,316	4/22/2014
12/784,740	05/21/2010	2011/0286306	11/24/2011	N/A	N/A
12/870,906	08/30/2010	2012/0051178	03/01/2012	9,513,395	N/A
13/211,496	8/17/2011	2013-0044567	2/21/2013	8,681,583	3/25/2014
13/747,682	1/23/2013	2014/0202688	7/24/2014	8,960,280	2/24/2015
14/219,388	3/19/2014	20140288835	9/25/2014	N/A	N/A
13/757,209	2/1/2013	20140216729	8/7/2014	9,158,021	N/A
13/747,682	1/23/2013	20140202688	7/24/2014	8,960,280	02/04/2015
CA 2794434	03/24/2011	CA 2794434	10/13/2011	N/A	N/A
US2011/029720	03/24/2011	WO2011/126753	10/13/2011	N/A	N/A
AU2011238747	03/24/2011	AU2011238747	10/14/2012	N/A	N/A
US2011/46989	08/09/2011	WO2012/030486	03/08/2012	N/A	N/A
US2011/35282	05/21/2010	WO2011/146246	11/24/2011	N/A	N/A
US2010/55802	01/08/2010	WO2012/078128	06/14/2012	N/A	N/A
EP20100859881	01/08/2010	EP 2499518	09/19/2012	N/A	N/A
CA 2780534	01/08/2010	CA 2780534	06/14/2012	N/A	N/A
AU2010363963	01/08/2010	AU2010363963	08/16/2012	N/A	N/A
US2010/51808	10/07/2010	WO2011/044352	04/14/2011	N/A	N/A
EP20100818082	10/07/2010	EP 2486428	08/15/2012	N/A	N/A
CA 2777296	10/07/2010	CA 2777296	04/14/2011	N/A	N/A
AU2010303399	10/07/2010	AU2010303399	05/24/2012	AU2010303399	12/20/2012
US2010/44183	08/03/2010	WO2011/022198	02/24/2011	N/A	N/A
EP20100757498	08/03/2010	EP2467735	06/27/2012	N/A	N/A
CA 2770983	08/03/2010	CA 2770983	02/24/2011	CA 2770983	4/16/2013
AU2010284553	08/03/2010	AU2010284553	03/15/2012	N/A	N/A
US2009/37220	03/16/2009	WO2009/117336	09/24/2009	N/A	N/A
EP20090722802	03/16/2009	EP 2255222	12/01/2010	N/A	N/A
CA 2718917	03/16/2009	CA 2718917	09/24/2009	CA 2718917	4/29/2014
AU2009225748	03/16/2009	AU2009225748	09/24/2009	AU2009225748	04/28/2011
US2009/37218	03/16/2009	WO2010/107421	09/23/2010	N/A	N/A
EP20090841996	03/16/2009	EP 2409179	01/25/2012	N/A	N/A
CA 2746344	03/16/2009	CA 2746344	09/23/2010	N/A	N/A
AU2009342617	03/16/2009	AU2009342617	09/23/2010	AU2009342617	11/29/2012
US2007/78100	09/11/2007	WO2008/033797	03/20/2008	N/A	N/A
EP20070842204	09/11/2007	EP 2054739	05/06/2009	N/A	N/A
CA 2663497	09/11/2007	CA 2663497	03/20/2008	CA 2663497	4/8/2014
AU2007296591	09/11/2007	AU2007296591	03/20/2008	AU2007296591	05/17/2012

SERIAL NO.	FILING DATE	PUBL. NO.	PUBL. DATE	PATENT NO.	ISSUE DATE
CA 2808173	08/09/2011	CA 2808173	03/08/2012	N/A	N/A
EP11760892	08/09/2011	EP2612171	07/10/2013	N/A	N/A
EP11714170	04/05/2010	EP2556391	02/13/2013	N/A	N/A
201180016902.9	03/24/2011	CN102985850 (A)	03/20/2013	N/A	N/A
US2013/61803813	03/21/2013	N/A	N/A	N/A	N/A
US2013/61820748	05/08/2013	N/A	N/A	N/A	N/A
AU2011296498	8/9/2011	N/A	N/A	AU2011296498	12/11/2014
201180041977	08/09/2011	CN103109207	11/24/2015		
2014212886	01/13/2014	AU2014212886		2014212886	12/03/2015
2014745641	01/13/2014	EP2951393	12/09/2015		
2911378	04/28/2014	CA2811378	11/13/2014	2911378	03/01/2016
14/176,165	02/10/2014	US20150226868	08/13/2015		
PCT/US2015/014957	02/09/2015	2015120353	08/13/2015		
14/246,290	04/07/2014	20150285933	10/08/2015		
PCT/US2015/20684	05/16/2015	2015156963	10/15/2015		
PCT/US2015/26269	04/17/2015	2015167818	11/05/2015		
PCT/US2015/32652	05/26/2015				
PCT/US2015/44574	08/11/2015				

**SCHEDULE B**

**TRADEMARKS AND TRADEMARK LICENSES**

<b>WORD MARK</b>	<b>COUNTRY</b>	<b>SERIAL NO</b>	<b>FILING DATE</b>	<b>REG. NO.</b>	<b>REG. DATE</b>
MICROSEISMIC PASSIVE MONITORING, ACTIVE LISTENING 	U.S.	85/258,488	03/04/2011	4059227	11/22/2011
MICROSEISMIC PASSIVE MONITORING, ACTIVE LISTENING 	Canada	1532351	06/17/2011	TMA842177	02/04/2013
WE LISTEN	U.S.	85/129,483	09/14/2010	3992602	07/12/2011
WE LISTEN	Canada	1532347	06/17/2011	TMA842178	02/04/2013
THE UNCONVENTIONAL SEISMIC RESOURCE	U.S.	85/127,893	09/13/2010	3992593	07/12/2011
MICROSEISMIC 	U.S.	85/127,887	09/13/2010	4156422	06/12/2012
MICROSEISMIC	U.S.	85/127,884	09/13/2010	4340117	03/15/2013
FRACSTAR	U.S.	78/921,909	07/03/2006	3251416	06/12/2007
PSET	U.S.	78/423,411	05/22/2004	2985317	08/16/2005
FAT FRACTURE	U.S.	85/901,750	04/11/2013	4692940	2/24/2015
FAT FRACTURE	Canada	1633589	07/02/2013	887249	10/01/2014
EVENTPICK	U.S.	85/901,743	04/11/2013	4629378	10/28/2014
EVENTPICK	Canada	1633586	07/02/2013	887252	10/01/2014
PRODUCTIVE-SRV	U.S.	85/901,733	04/11/2013	4629377	10/28/2014
PRODUCTIVE-SRV	Canada	1633587	07/02/2013	N/A	N/A
BURIEDARRAY	U.S.	85/901,753	04/11/2013	4622664	10/14/2014
BURIEDARRAY	Canada	1633584	07/02/2013	887251	10/01/2014
GLOBAL MICROSEISMIC SERVICES	U.S.	85/133,318	09/20/2010	3930326	03/08/2011
PERMINDEX	U.S.	86/350,444	7/28/2014	4933227	04/05/2016
PERMINDEX	Canada	1687581	7/30/2014	N/A	N/A
FRACRX	U.S.	86/350,437	7/28/2014	4933226	04/05/2016
FRACRX	Canada	1687580	7/30/2014	N/A	N/A
FRACSTAR	U.S.	86258318	9/9/2014	4645002	11/25/2014
FRACSTAR	Canada	1694377	9/18/2014	N/A	N/A
Dindex (intend to use status – do not record against at this time)		86/904,870	07/05/2016		
Pindex (intend to use status – do not record against at this time)		86/904,883	07/05/2016		
Productive-SRV		909052	07/21/2015		
FRACSTAR		913348	09/08/2015		
Permindex		918074	10/23/2015		