

UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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PETROLEUM GEO-SERVICES INC.  
and  
ION GEOPHYSICAL CORPORATION  
AND ION INTERNATIONAL S.A.R.L.,

Petitioners,

v.

WESTERNGECO L.L.C.

Patent Owner.

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Case IPR2014-00689<sup>1</sup>

U.S. Patent No. 7,293,520

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**PATENT OWNER WESTERNGECO L.L.C.'S  
UPDATED TABLE OF EXHIBITS**

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<sup>1</sup> Case IPR2015-00565 has been joined with this proceeding.

**TABLE OF EXHIBITS**

<b>Ex.</b>	<b>Sealed / Public</b>	<b>Description</b>
2001	Public	Transcript of July 28, 2014 Conference Call with the Board
2002	<b>Sealed</b>	<b>Parties and Board Only</b>
2003	<b>Sealed</b>	<b>Parties and Board Only</b>
2004	<b>Sealed</b>	<b>Parties and Board Only</b>
2005	Public	<i>WesternGeco L.L.C. v. Ion Geophysical Corporation</i> , Civil Action No. 4:09-CV-01827, ION15987-93.
2006	<b>Sealed</b>	<b>Parties and Board Only</b>
2007	Public	Complaint in <i>WesternGeco L.L.C. v. Ion Geophysical Corporation</i> , Civil Action No. 4:09-CV-01827, June 12, 2009.
2008	Public	Notice of <i>WesternGeco L.L.C. v. Ion Geophysical Corporation</i> , Civil Action No. 4:09-CV-01827 provided to Petitioner on December 8, 2009.
2009	Public	Subpoena dated January 22, 2010 in <i>WesternGeco L.L.C. v. Ion Geophysical Corporation</i> , Civil Action No. 4:09-CV-01827.
2010	Public	WesternGeco's Motion To Compel Third-Party Production, <i>WesternGeco L.L.C. v. Ion Geophysical Corporation</i> , Civil Action No. 4:09-CV-01827, D.I. 81.
2011	Public	Petroleum Geo-Services, Inc.'s Response To Plaintiff's Document Subpoena in <i>WesternGeco L.L.C. v. Ion Geophysical Corporation</i> , Civil Action No. 4:09-CV-01827, February 8, 2010.
2012	Public	Amended Complaint filed in <i>WesternGeco L.L.C. v. Ion Geophysical Corporation</i> , Civil Action No. 4:09-CV-01827, March 14, 2011.
2013	Public	E-Mail Receipt of Amended Complaint in <i>WesternGeco L.L.C. v. Ion Geophysical Corporation</i> , Civil Action No. 4:09-CV-01827, March 14, 2011.
2014	<b>Sealed</b>	<b>Parties and Board Only</b>
2015	Public	<i>WesternGeco LLC v. Petroleum Geo-Services Inc.</i> , et al., No. 4-13-cv-02725, PGSI-T2725-WG-46640.
2016	Public	<i>WesternGeco LLC v. Petroleum Geo-Services Inc.</i> , et al., No.

WESTERNGECO L.L.C.  
Case IPR2014-00689  
U.S. Patent No. 7,293,520  
Patent Owner's Updated Exhibit List  
Submitted: June 5, 2015

Ex.	Sealed / Public	Description
		4-13-cv-02725, PGSI-T2725-WG-46649.
2017	Public	<i>WesternGeco LLC v. Petroleum Geo-Services Inc.</i> , et al., No. 4-13-cv-02725, PGSI-T2725-WG-46638.
2018	Public	Petitioner Response to Interrogatories dated September 4, 2014.
2019	<b>Sealed</b>	<b>Parties and Board Only</b>
2020	<b>Sealed</b>	<b>Parties and Board Only</b>
2021	<b>Sealed</b>	<b>Parties and Board Only</b>
2022	<b>Sealed</b>	<b>Parties and Board Only</b>
2023	<b>Sealed</b>	<b>Parties and Board Only</b>
2024	Public	Patent Assignment Abstract
2025	Public	E-Mail from S. McKeown to D. Berl dated September 9, 2014.
2026	Public	PGS Human Resources Memo dated January 11, 2013.
2027	<b>Sealed</b>	<b>Parties and Board Only</b>
2028	Public	<i>WesternGeco LLC v. Petroleum Geo-Services Inc.</i> , et al., No. 4-13-cv-02725, Privilege Log.
2029	Public	Letter from Arka Chatterjee to Simeon Papacostas dated August 21, 2014.
2030	Public	Geo's Motion For Summary Judgment Against Western's Attempted Double Recovery, <i>WesternGeco LLC v. Petroleum Geo-Services Inc.</i> , et al., No. 4-13-cv-02725, July 15, 2014.
2031	Public	Notice of Appeal.
2032	Public	Geo's Motion To Stay Western's Claims Pending Final Judgment In Related Litigation, And Pending Patent Office Review Proceedings <i>WesternGeco LLC v. Petroleum Geo-Services Inc.</i> , et al., No. 4-13-cv-02725, May 23, 2014.
2033	Public	Local Rules of the United States District Court for the Southern District of Texas
2034	Public	Excerpt of Robin Walker Trial Transcript in <i>WesternGeco L.L.C. v. Ion Geophysical Corporation</i> , Civil Action No. 4:09-CV-01827, July 30, 2012.
2035	Public	Excerpt of Tom Scoulios Trial Transcript in <i>WesternGeco L.L.C.</i>

WESTERNGECO L.L.C.  
Case IPR2014-00689  
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Patent Owner's Updated Exhibit List  
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Ex.	Sealed / Public	Description
		<i>v. Ion Geophysical Corporation</i> , Civil Action No. 4:09-CV-01827, July 24, 2012.
2036	Public	Excerpt of Robert Brune Trial Transcript in <i>WesternGeco L.L.C. v. Ion Geophysical Corporation</i> , Civil Action No. 4:09-CV-01827, August 8, 2012.
2037	Public	Order on WesternGeco's Motion to Consolidate, <i>WesternGeco L.L.C. v. Ion Geophysical Corporation</i> , Civil Action No. 4:09-CV-01827, June 21, 2010.
2038	Public	Proposed Standing Protective Order (Default Protective Order)
2039	Public	Transcript of Deposition of Brian Evans, Ph.D. (Volume I, 2/5/2015)
2040	Public	Transcript of Deposition of Brian Evans, Ph.D. (Volume II, 2/6/2015)
2041	Public	Transcript of Deposition of Jack Cole, Ph.D. (2/12/2015)
2042	Public	Declaration of Michael S. Triantafyllou
2043	Public	U.S. Patent No. 7,080,607
2044	Public	U.S. Patent No. 7,162,967
2045	Public	A. Dowling, "The Dynamics of Towed Cylinders, Part I: Neutrally Buoyant Elements," 187 J. Fluid Mech., 507-532 (1988)
2046	Public	M.P. Paidoussis, <i>Fluid-Structure Interactions: Slender Structures and Axial Flow</i> (1998)
2047	Public	M.S. Triantafyllou, 1991, <i>Dynamics of Cables, Towing Cables and Mooring Systems</i> , 23 Shock & Vibration Dig., No. 7
2048	Public	Jason I. Gobat, Mark A. Grosenbaugh, & Michael S. Triantafyllou, Woods Hole Oceanographic Inst., <i>WHOI Cable: Time Domain Numerical Simulation of Moored and Towed Oceanographic Systems</i> , (November 1997)
2049	Public	Jason I. Gobat, Mark A. Grosenbaugh, & Michael S. Triantafyllou, <i>Generalized-<math>\alpha</math> Time Integration Solutions for Hanging Chain Dynamics</i> , 128 J. of Engineering Mech., No. 6, 2002

WESTERNGECO L.L.C.  
Case IPR2014-00689  
U.S. Patent No. 7,293,520  
Patent Owner's Updated Exhibit List  
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Ex.	Sealed / Public	Description
2050	Public	Excerpt of Hastings Bittleston Trial Transcript in <i>WesternGeco L.L.C.v. Ion Geophysical Corporation</i> , Civil Action No. 4:09-CV-01827, July 24, 2012.
2051	Public	Trial Exhibit PTX 73, "Streamer Dynamics Calculations" in <i>WesternGeco L.L.C.v. Ion Geophysical Corporation</i> , Civil Action No. 4:09-CV-01827
2052	<b>Sealed</b>	Deposition Transcript of Oyvind Hillesund ( <b>Parties and Board Only</b> )
2053	Public	<i>Acquisition Technology Snapshots</i> , 9 PGS Tech Link, No. 12 2009
2054	Public	Trial Demonstrative Leonard DEMO008 in <i>WesternGeco L.L.C. v. Ion Geophysical Corporation</i> , Civil Action No. 4:09-CV-01827
2055	Public	Excerpt of John Leonard Trial Transcript in <i>WesternGeco L.L.C.v. Ion Geophysical Corporation</i> , Civil Action No. 4:09-CV-01827, July 27, 2012.
2056	Public	U.S. Patent No. 5,353,223
2057	Public	U.S. Patent No. 4,729,333
2058	Public	U.S. Patent No. 4,463,701
2059	Public	U.S. Patent No. 5,443,027
2060	Public	U.S. Patent No. 3,931,608
2061	Public	Excerpts of the Declaration of Dr. Brian Evans Submitted in IPR2014-00688
2062	Public	Excerpts of the Declaration of Dr. Jack H. Cole Submitted in IPR2014-00688
2063		<i>Exhibit Number Not Used</i>
2064		<i>Exhibit Number Not Used</i>
2065		<i>Exhibit Number Not Used</i>
2066		<i>Exhibit Number Not Used</i>
2067		<i>Exhibit Number Not Used</i>
2068		<i>Exhibit Number Not Used</i>
2069	<b>Sealed</b>	Agreement, PGS-JURID_00000158 ( <b>Parties and Board Only</b> )

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