

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

R.J. REYNOLDS VAPOR COMPANY,
Petitioner,

v.

FONTEM HOLDINGS 1 B.V.,
Patent Owner.

Case **IPR2018-00634**
Patent No. **9,456,632**

SUBMISSION OF EXHIBIT 2087 AND UPDATED EXHIBIT LIST

Confidential Exhibit 2087 is submitted herewith and designated as

PARTIES AND BOARD ONLY:

Ex. 2087	CONFIDENTIAL - Settlement Agreement
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Pursuant to 37 C.F.R. § 42.63(e), a current Exhibit List follows.

LIST OF EXHIBITS

Petitioner's Exhibits	
Exhibit	Description
Ex. 1001	U.S. Pat. No. 9,456,632 ("632 patent")
Ex. 1002	Expert Declaration of Robert Sturges, Ph.D.
Ex. 1003	U.S. Pat. No. 4,947,874 ("Brooks")
Ex. 1004	U.S. Pat. No. 2,057,353 ("Whittemore")
Ex. 1005	U.S. Pat. No. 5,894,841 ("Voges")
Ex. 1006	Reserved
Ex. 1007	Reserved
Ex. 1008	U.S. Pat. No. 6,155,268 to Takeuchi
Ex. 1009	Chinese Pat. No. 2719043Y ("Hon 043") (including certified translation)
Ex. 1010	U.S. Pat. No. 5,743,251 ("Howell")
Ex. 1011	U.S. Pat. No. 2,461,664 ("Smith")
Ex. 1012	U.S. Pat. No. 3,234,357 ("Seuthe")
Ex. 1013	<i>Contact</i> , <u>Merriam-Webster's Collegiate Dictionary</u> , Merriam- Webster, Inc. (11th ed. 2003)
Ex. 1014	U.S. Pat. Pub. No. 2004/0234916 ("Hale")
Ex. 1015	U.S. Pat. No. 4,922,901 ("Brooks 901")
Ex. 1016	U.S. Pat. No. 1,084,304 ("Vaughn")

Petitioner's Exhibits	
Exhibit	Description
Ex. 1017	Institution Decision dated Feb. 7, 2017 (Paper 9), <i>R.J. Reynolds Vapor Co. v. Fontem Holdings I B.V.</i> , IPR2016-01532 (P.T.A.B., petition filed Aug. 5, 2016)
Ex. 1018	Institution Decision dated Mar. 6, 2017 (Paper 9), <i>R.J. Reynolds Vapor Co. v. Fontem Holdings I B.V.</i> , IPR2016-01691 (P.T.A.B., petition filed Aug. 30, 2016)
Ex. 1019	U.S. Pat. No. 3,292,635 (“Kolodny”)
Ex. 1020	U.S. Pat. No. 3,685,521 (“Dock”)
Ex. 1021	Reserved
Ex. 1022	Institution Decision dated Feb. 5, 2018 (Paper 9), <i>Cascades Canada ULC v. SCA Hygiene Prods AB</i> , IPR2017-01921 (P.T.A.B., petition filed Aug. 7, 2017)
Ex. 1023	Institution Decision dated Jan. 19, 2018 (Paper 9), <i>Donghee America, Inc. v. Plastic Omnium Advanced Innovation and Research</i> , IPR2017-01654 (P.T.A.B., petition filed June 21, 2017)
Ex. 1024	Institution Decision dated May 18, 2017 (Paper 9), <i>Limelight Networks, Inc. v. Mass. Inst. of Tech.</i> , IPR2017-00249 (P.T.A.B., petition filed Nov. 11, 2016)
Ex. 1025	Institution Decision dated July 15, 2015 (Paper 10), <i>Microsoft Corp. v. Parallel Networks Licensing, LLC</i> , IPR2015-00483 (P.T.A.B., petition filed Dec. 23, 2014)
Ex. 1026	Institution Decision dated Mar. 13, 2013 (Paper 19), <i>Micron Tech., Inc. v. Bd. of Trs. of the Univ. of Ill.</i> , IPR2013-00005 (P.T.A.B., petition filed Oct. 2, 2012)
Ex. 1027	Institution Decision dated Jan. 24, 2013 (Paper 18), <i>Macauto U.S.A. v. BOS GMBH & KG</i> , IPR2012-00004 (P.T.A.B., petition filed Sept. 16, 2012)

Petitioner's Exhibits	
Exhibit	Description
Ex. 1028	Institution Decision dated Feb. 6, 2018 (Paper 8), <i>Samsung Elecs. Am. v. Uniloc</i> , IPR2017-01801 (P.T.A.B., petition filed July 20, 2017)
Ex. 1029	Institution Decision dated Jan. 4, 2017 (Paper 11), <i>R.J. Reynolds Vapor Company v. Fontem Holdings I B.V.</i> , IPR2016-01270 (P.T.A.B., petition filed July 2, 2016)
Ex. 1030	U.S. Pat. Pub. No. 2005/0016550 (“Katase”)
Ex. 1031	Reserved
Ex. 1032	Reserved
Ex. 1033	U.S. Pat. No. 4,941,486 (“Dube”)
Ex. 1034	U.S. Pat. No. 7,337,782 (“Thompson”)
Ex. 1035	Declaration of Kyle E. Yarberry
Ex. 1036	WO00/28843 (“Pienemann”)
Ex. 1037	Certified Translation of WO00/28843

Patent Owner's Exhibits	
Exhibit	Description
Ex. 2001	Declaration of Richard Meyst
Ex. 2002	<i>NJOY, Inc.; et al. v. Fontem Holdings I B.V.</i> , IPR2014-01300, Paper 6, Patent Owner's Preliminary Response (P.T.A.B. Nov. 20, 2014)
Ex. 2003	<i>Logic Technology Development, LLC v. Fontem Holdings I B.V.</i> , IPR2015-00098, Paper 7, Patent Owner's Preliminary Response (P.T.A.B. Feb. 18, 2015)

Patent Owner's Exhibits	
Exhibit	Description
Ex. 2004	<i>Logic Technology Development, LLC v. Fontem Holdings I B.V.</i> , IPR2015-00098, Paper 8, Decision Denying Institution of <i>Inter Partes</i> Review (P.T.A.B. May 11, 2015)
Ex. 2005	<i>VMR Products LLC v. Fontem Holdings I B.V.</i> , IPR2015-00859, Paper 2, Petition for <i>Inter Partes</i> Review of U.S. Patent No. 8,365,742 (P.T.A.B. Mar. 10, 2015)
Ex. 2006	<i>VMR Products LLC v. Fontem Holdings I B.V.</i> , IPR2015-00859, Paper 5, Patent Owner's Preliminary Response (P.T.A.B. Jun. 20, 2015)
Ex. 2007	<i>VMR Products LLC v. Fontem Holdings I B.V.</i> , IPR2015-00859, Paper 9, Decision Denying Institution of <i>Inter Partes</i> Review (P.T.A.B. Sep. 16, 2015)
Ex. 2008	<i>JT International S.A. v. Fontem Holdings I B.V.</i> , IPR2015-01513, Paper 8, Patent Owner's Preliminary Response (P.T.A.B. Oct. 20, 2015)
Ex. 2009	<i>JT International S.A. v. Fontem Holdings I B.V.</i> , IPR2015-01587, Paper 1, Petition for <i>Inter Partes</i> Review of U.S. Patent No. 8,365,742 (P.T.A.B. Jul. 14, 2015)
Ex. 2010	<i>JT International S.A. v. Fontem Holdings I B.V.</i> , IPR2015-01587, Paper 6, Patent Owner's Preliminary Response (P.T.A.B. Nov. 2, 2015)
Ex. 2011	<i>JT International S.A. v. Fontem Holdings I B.V.</i> , IPR2015-01587, Paper 12, Order Dismissing Petitions (P.T.A.B. Dec. 14, 2015)
Ex. 2012	<i>R.J. Reynolds Vapor Company v. Fontem Holdings I B.V.</i> , IPR2016-01268, Paper 2, Petition for <i>Inter Partes</i> Review of U.S. Patent No. 8,365,742 (P.T.A.B. Jul. 2, 2016)
Ex. 2013	<i>R.J. Reynolds Vapor Company v. Fontem Holdings I B.V.</i> , IPR2016-01268, Paper 8, Patent Owner's Preliminary Response (P.T.A.B. Oct. 7, 2016)
Ex. 2014	<i>R.J. Reynolds Vapor Company v. Fontem Holdings I B.V.</i> , IPR2016-01268, Paper 10, Decision Instituting <i>Inter Partes</i> Review (P.T.A.B. Jan. 4, 2017)

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Ex. 2015	<i>R.J. Reynolds Vapor Company v. Fontem Holdings I B.V.</i> , IPR2016-01270, Paper 2, Petition for <i>Inter Partes</i> Review of U.S. Patent No. 8,893,726 (P.T.A.B. Jul. 2, 2016)
Ex. 2016	<i>R.J. Reynolds Vapor Company v. Fontem Holdings I B.V.</i> , IPR2016-01270, Ex. 1009, Declaration of Dr. Robert H. Sturges (P.T.A.B. Jul. 2, 2016)
Ex. 2017	<i>R.J. Reynolds Vapor Company v. Fontem Holdings I B.V.</i> , IPR2016-01270, Paper 9, Patent Owner's Preliminary Response (P.T.A.B. Oct. 7, 2016)
Ex. 2018	<i>R.J. Reynolds Vapor Company v. Fontem Holdings I B.V.</i> , IPR2016-01270, Paper 12, Petitioner's Request for Rehearing (P.T.A.B. Feb. 2, 2017)
Ex. 2019	<i>R.J. Reynolds Vapor Company v. Fontem Holdings I B.V.</i> , IPR2016-01270, Paper 13, Decision Denying Petitioner's Request for Rehearing, (P.T.A.B. Mar. 10, 2017)
Ex. 2020	<i>Nu Mark LLC v. Fontem Holdings I B.V.</i> , IPR2016-01297, Paper 8, Patent Owner's Preliminary Response (P.T.A.B. Oct. 6, 2016)
Ex. 2021	<i>Nu Mark LLC v. Fontem Holdings I B.V.</i> , IPR2016-01303, Paper 1, Petition for <i>Inter Partes</i> Review of U.S. Patent No. 8,365,742 (P.T.A.B. Jun. 28, 2016)
Ex. 2022	<i>Nu Mark LLC v. Fontem Holdings I B.V.</i> , IPR2016-01303, Paper 7, Patent Owner's Preliminary Response (P.T.A.B. Oct. 7, 2016)
Ex. 2023	<i>Nu Mark LLC v. Fontem Holdings I B.V.</i> , IPR2016-01303, Paper 12, Termination Dismissing the Petitions (P.T.A.B. Jan. 4, 2017)
Ex. 2024	<i>Nu Mark LLC v. Fontem Holdings I B.V.</i> , IPR2016-01307, Paper 9, Patent Owner's Preliminary Response (P.T.A.B. Sep. 30, 2016)
Ex. 2025	<i>Nu Mark LLC v. Fontem Holdings I B.V.</i> , IPR2016-01307, Paper 12, Decision - Denial of Institution of <i>Inter Partes</i> Review (P.T.A.B. Dec. 23, 2016)

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Ex. 2026	<i>Nu Mark LLC v. Fontem Holdings I B.V.</i> , IPR2016-01309, Paper 8, Patent Owner's Preliminary Response (P.T.A.B. Sep. 30, 2016)
Ex. 2027	<i>Nu Mark LLC v. Fontem Holdings I B.V.</i> , IPR2016-01309, Paper 11, Decision Denying Institution of <i>Inter Partes</i> Review (P.T.A.B. Dec. 15, 2016)
Ex. 2028	<i>R.J. Reynolds Vapor Company v. Fontem Holdings I B.V.</i> , IPR2016-01527, Paper 1, Petition for <i>Inter Partes</i> Review of U.S. Patent No. 8,490,628 (P.T.A.B. Aug. 3, 2016)
Ex. 2029	<i>R.J. Reynolds Vapor Company v. Fontem Holdings I B.V.</i> , IPR2016-01527, Paper 9, Patent Owner's Preliminary Response (P.T.A.B. Nov. 16, 2016)
Ex. 2030	<i>R.J. Reynolds Vapor Company v. Fontem Holdings I B.V.</i> , IPR2016-01527, Paper 10, Decision Denying <i>Inter Partes</i> Review (P.T.A.B. Jan. 30, 2017)
Ex. 2031	<i>R.J. Reynolds Vapor Company v. Fontem Holdings I B.V.</i> , IPR2016-01532, Paper 1, Petition for <i>Inter Partes</i> Review of U.S. Patent No. 8,365,742 (P.T.A.B. Aug. 5, 2016)
Ex. 2032	<i>R.J. Reynolds Vapor Company v. Fontem Holdings I B.V.</i> , IPR2016-01532, Paper 9, Decision Denying Institution of <i>Inter Partes</i> Review (P.T.A.B. Feb. 7, 2017)
Ex. 2033	<i>R.J. Reynolds Vapor Company v. Fontem Holdings I B.V.</i> , IPR2016-01691, Paper 2, Petition for <i>Inter Partes</i> Review of U.S. Patent No. 9,326,548 (P.T.A.B. Aug. 30, 2016)
Ex. 2034	<i>R.J. Reynolds Vapor Company v. Fontem Holdings I B.V.</i> , IPR2016-01691, Paper 9, Decision Denying <i>Inter Partes</i> Review (P.T.A.B. Mar. 6, 2017)
Ex. 2035	<i>R.J. Reynolds Vapor Company v. Fontem Holdings I B.V.</i> , IPR2016-01692, Paper 2, Petition for <i>Inter Partes</i> Review of U.S. Patent No. 9,326,548 (P.T.A.B. Aug. 30, 2016)

Patent Owner's Exhibits	
Exhibit	Description
Ex. 2036	<i>R.J. Reynolds Vapor Company v. Fontem Holdings I B.V.</i> , IPR2016-01692, Ex. 1015, Declaration of Dr. Robert H. Sturges (P.T.A.B. Aug. 30, 2016)
Ex. 2037	<i>R.J. Reynolds Vapor Company v. Fontem Holdings I B.V.</i> , IPR2016-01692, Paper 7, Patent Owner's Preliminary Response (P.T.A.B. Dec. 9, 2016)
Ex. 2038	<i>R.J. Reynolds Vapor Company v. Fontem Holdings I B.V.</i> , IPR2016-01692, Paper 8, Decision Institution of <i>Inter Partes</i> Review (P.T.A.B. Mar. 7, 2017)
Ex. 2039	<i>Nu Mark LLC v. Fontem Holdings I B.V.</i> , IPR2017-00204, Paper 1, Petition for <i>Inter Partes</i> Review of U.S. Patent No. 9,326,548 (P.T.A.B. Nov. 4, 2016)
Ex. 2040	<i>Nu Mark LLC v. Fontem Holdings I B.V.</i> , IPR2017-00204, Paper 11, Termination Dismissing the Petitions (P.T.A.B. Jan. 4, 2017)
Ex. 2041	<i>Nu Mark LLC v. Fontem Holdings I B.V.</i> , IPR2017-00205, Paper 10, Termination Dismissing the Petitions (P.T.A.B. Jan. 4, 2017)
Ex. 2042	<i>Nu Mark LLC v. Fontem Holdings I B.V.</i> , IPR2017-00257, Paper 10, Termination Dismissing the Petitions (P.T.A.B. Jan. 4, 2017)
Ex. 2043	<i>Nu Mark LLC v. Fontem Holdings I B.V.</i> , IPR2017-00303, Paper 9, Termination Dismissing the Petitions (P.T.A.B. Jan. 4, 2017)
Ex. 2044	<i>Nu Mark LLC v. Fontem Holdings I B.V.</i> , IPR2017-00342, Paper 9, Termination Dismissing the Petitions (P.T.A.B. Jan. 4, 2017)
Ex. 2045	<i>R.J. Reynolds Vapor Co. v. Fontem Holdings I B.V.</i> , IPR2017-01118, Paper 2, Petition for <i>Inter Partes</i> Review of U.S. Patent No. 8,490,628 (P.T.A.B. Apr. 3, 2017)
Ex. 2046	<i>R.J. Reynolds Vapor Co. v. Fontem Holdings I B.V.</i> , IPR2017-01118, Paper 7, Patent Owner's Preliminary Response (P.T.A.B. Jul. 25, 2017)
Ex. 2047	<i>R.J. Reynolds Vapor Co. v. Fontem Holdings I B.V.</i> , IPR2017-01118 and IPR2017-01119, Paper 8, Decision Denying <i>Inter Partes</i> Review (P.T.A.B. Oct. 4, 2017)

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Exhibit	Description
Ex. 2048	<i>R.J. Reynolds Vapor Co. v. Fontem Holdings I B.V.</i> , IPR2017-01120, Paper 2, Petition for <i>Inter Partes</i> Review of U.S. Patent No. 8,899,239 (P.T.A.B. Apr. 4, 2017)
Ex. 2049	<i>R.J. Reynolds Vapor Co. v. Fontem Holdings I B.V.</i> , IPR2017-01120, Paper 8, Patent Owner's Preliminary Response (P.T.A.B. Jul. 25, 2017)
Ex. 2050	<i>R.J. Reynolds Vapor Co. v. Fontem Holdings I B.V.</i> , IPR2017-01120, Paper 11, Decision Institution of <i>Inter Partes</i> Review (P.T.A.B. Oct. 23, 2017)
Ex. 2051	<i>R.J. Reynolds Vapor Co. v. Fontem Holdings I B.V.</i> , IPR2017-01319, Paper 2, Petition for <i>Inter Partes</i> Review of U.S. Patent No. 9,326,549 (P.T.A.B. May 3, 2017)
Ex. 2052	<i>R.J. Reynolds Vapor Co. v. Fontem Holdings I B.V.</i> , IPR2017-01319, Paper 6, Patent Owner's Preliminary Response (P.T.A.B. Aug. 16, 2017)
Ex. 2053	<i>R.J. Reynolds Vapor Co. v. Fontem Holdings I B.V.</i> , IPR2017-01319, Paper 7, Decision Denying <i>Inter Partes</i> Review (P.T.A.B. Aug. 16, 2017)
Ex. 2054	<i>R.J. Reynolds Vapor Co. v. Fontem Holdings I B.V.</i> , IPR2017-01642, Paper 1, Petition for <i>Inter Partes</i> Review of U.S. Patent No. 9,370,205 (P.T.A.B. Jun. 26, 2017)
Ex. 2055	<i>R.J. Reynolds Vapor Co. v. Fontem Holdings I B.V.</i> , IPR2017-01642, Ex. 1004, Declaration of Dr. Robert H. Sturges (P.T.A.B. Jun. 26, 2017)
Ex. 2056	<i>R.J. Reynolds Vapor Co. v. Fontem Holdings I B.V.</i> , IPR2017-01642, Paper 9, Patent Owner's Preliminary Response (P.T.A.B. Oct. 23, 2017)
Ex. 2057	<i>R.J. Reynolds Vapor Co. v. Fontem Holdings I B.V.</i> , IPR2017-01642, Paper 10, Decision Denying Institution of <i>Inter Partes</i> Review (P.T.A.B. Jan. 16, 2018)
Ex. 2058	<i>R.J. Reynolds Vapor Co. v. Fontem Holdings I B.V.</i> , IPR2018-00627, Paper 2, Petition for <i>Inter Partes</i> Review of U.S. Patent No. 8,393,331 (P.T.A.B. Mar. 1, 2018)

Patent Owner's Exhibits	
Exhibit	Description
Ex. 2059	European Patent Application Publication No. 0358002A2
Ex. 2060	U.S. Patent No. 4,947,875 ("Brooks '875")
Ex. 2061	<i>Fontem Ventures B.V. v. R.J. Reynolds Vapor Company</i> , U.S. District Court for the Middle District of North Carolina, Case 16-cv-01255, Dkt. 50, Amended Memorandum of Points and Authorities in Support of Defendants Motion to Stay Litigation Pending Inter Partes Review (Nov. 2, 2016)
Ex. 2062	<i>Fontem Ventures B.V. v. R.J. Reynolds Vapor Company</i> , U.S. District Court for the Middle District of North Carolina, Case 17-cv-00175, Dkt. 1, Complaint (Mar. 1, 2017)
Ex. 2063	<i>Fontem Ventures B.V. v. R.J. Reynolds Vapor Company</i> , U.S. District Court, Middle District of North Carolina, Case 16-cv-01255, Dkt. 148, Claim Construction Order (Mar. 12, 2018)
Ex. 2064	<i>Microsoft Corp. v. Global Tech., Inc.</i> , IPR2016-00663 and IPR2016-00669, Paper 22, Order - Conduct of the Proceedings (P.T.A.B. Mar. 21, 2017)
Ex. 2065	<i>Ex parte Shaw</i> , Appeal No. 1997-3258, Paper 94, Decision on Appeal (B.P.A.I. 2004)
Ex. 2066	<i>Ex parte Shaw</i> , Appeal No. 1997-3258, Paper 109, Memorandum Opinion and Order Denying Rehearing (B.P.A.I. 2005)
Ex. 2067	<i>US Endodontics, LLC v. Gold Standard Instruments, LLC</i> , IPR2015-01476, Paper 13, Decision Denying Institution of <i>Inter Partes</i> Review (P.T.A.B. Oct. 26, 2015)
Ex. 2068	<i>Neil Ziegmann, N.P.Z. v. Stephens</i> , IPR2015-01860, Paper 13, Decision on Request for Rehearing (P.T.A.B. Sept. 6, 2017)
Ex. 2069	<i>Benitec Biopharma Ltd. v. Cold Spring Harbor Laboratory</i> , IPR2016-00014, Paper 7, Decision Denying Institution of <i>Inter Partes</i> Review (P.T.A.B. Mar. 23, 2016)
Ex. 2070	<i>Gen. Plastic Indus. Co., Ltd. v. Canon Kabushiki Kaisha</i> , IPR2016-01357, Paper 19, Decision Denying Petitioner's Requests for Rehearing (P.T.A.B. Sep. 6, 2017)

Patent Owner's Exhibits	
Exhibit	Description
Ex. 2071	<i>Samsung Elecs. Co., Ltd. v. Elm 3DS Innovations, LLC</i> , IPR2017-01305, Paper 11, Decision Denying Institution of <i>Inter Partes</i> Review (P.T.A.B. Oct. 17, 2017)
Ex. 2072	<i>NetApp Inc. v. Realtime Data LLC</i> , IPR2017-01660, Paper 17, Decision Denying Institution of <i>Inter Partes</i> Review (P.T.A.B. Jan. 25, 2018)
Ex. 2073	<i>Nautilus Hyosung Inc. v Diebold, Inc.</i> , IPR2017-00426, Paper 17, Decision Denying Institution of <i>Inter Partes</i> Review (P.T.A.B. Jun. 22, 2017)
Ex. 2074	'632 Patent File History (Application No. 13/740,011) - January 26, 2013 Information Disclosure Statement considered by Examiner January 24, 2015
Ex. 2075	'632 Patent File History (Application No. 13/740,011) - July 24, 2015 Information Disclosure Statement considered by Examiner August 6, 2015
Ex. 2076	'632 Patent File History (Application No. 13/740,011) - July 11, 2016 Information Disclosure Statement considered by Examiner July 14, 2016
Ex. 2077	'632 Patent File History (Application No. 13/740,011) - June 12, 2013 Statement of Related Applications
Ex. 2078	'632 Patent File History (Application No. 13/740,011) - October 7, 2015 Notice of Decision Denying Institution of <i>Inter Partes</i> Review of Parent 8,365,742
Ex. 2079	'632 Patent File History (Application No. 13/740,011) - December 22, 2015 Statement of Related Applications
Ex. 2080	'632 Patent File History (Application No. 13/740,011) - January 13, 2016 Supplemental Statement of Related Applications
Ex. 2081	U.S. Patent No. 5,327,917 (Lekwauwa et al.)
Ex. 2082	<i>R.J. Reynolds Vapor Company v. Fontem Holdings I B.V.</i> , IPR2016-01268, Paper 63, Final Written Decision (P.T.A.B. Dec. 19, 2017)

Patent Owner's Exhibits	
Exhibit	Description
Ex. 2083	<i>R.J. Reynolds Vapor Company v. Fontem Holdings I B.V.</i> , IPR2016-01692, Paper 45, Final Written Decision (P.T.A.B. Mar. 2, 2018)
Ex. 2084	Merriam Webster's Collegiate Dictionary (11th ed. 2003), selected pages
Ex. 2085	Random House Webster's Unabridged Dictionary (2nd. ed. 2001), selected pages
Ex. 2086	Transcript of August 2, 2018 Conference Call
Ex. 2087	CONFIDENTIAL - Settlement Agreement

Patent Owner's Exhibits	
Exhibit	Description
Ex. 3001	Email to the Board dated July 26, 2018

Respectfully submitted,

Date: October 4, 2018

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Lead Counsel for Patent Owner

CERTIFICATE OF SERVICE

The undersigned hereby certifies that service on Petitioner was made as follows, in accordance with 37 CFR 42.6(e):

Date of service: October 4, 2018

Manner of service: 1. Electronic submission through the USPTO Patent Trial and Appeal Board End-to-End System
2. Electronic mail

Document(s) served: **SUBMISSION OF EXHIBIT 2087 AND UPDATED EXHIBIT LIST**

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