

Filed on behalf of: Meta Platforms, Inc.

Filed: October 25, 2024

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

META PLATFORMS, INC.
Petitioner,

v.

EIGHT KHZ, LLC
Patent Owner.

Case No. IPR2023-01003
U.S. Patent No. 9,226,090

PETITIONER'S UPDATED EXHIBIT LIST

Pursuant to 37 C.F.R. § 42.63(e), Petitioner Meta Platforms, Inc., respectfully submits the following updated exhibit list:

UPDATED EXHIBIT LIST

Exhibit	Description
1001	U.S. Patent No. 9,226,090 (“’090 Patent”)
1002	Prosecution History of U.S. Patent No. 9,226,090 (“’090 FH”)
1003	Declaration of Dr. Kyriakakis (“Kyriakakis”)
1004	<i>Curriculum Vitae</i> of Dr. Kyriakakis
1005	U.S. Patent No. 8,406,439 to Bedingfield et al. (“Bedingfield”)
1006	U.S. Patent No. 9,131,305 to Li et al. (“Li”)
1007	U.S. Patent No. 8,818,000 to Andrea (“Andrea”)
1008	U.S. Patent Pub. No. 2003/0059070 to Ballas (“Ballas”)
1009	U.S. Patent No. 7,606,375 to Bailey et al. (“Bailey”)
1010	RESERVED
1011	RESERVED
1012	RESERVED
1013	U.S. Patent App. Pub. 2014/0064526 to Otto, et al. (“Otto”)
1014	RESERVED
1015	Rumsey, Francis “Whose head is it anyway? Optimizing binaural audio.” J. Audio Eng. Soc., Vol. 59, No. 9, 2011 (“Rumsey”)

Exhibit	Description
1016	RESERVED
1017	U.S. Patent App. Pub. 2008/0273708 to Sandgren, et al. ("Sandgren")
1018	RESERVED
1019	RESERVED
1020	Scheinerman, Matt "Exploring Augmented Reality." Haverford College Computer Science (2009) ("Scheinerman")
1021	Comeau, Charles et al. "Headsight TV System." Electronics, 1961, pp. 86-90 ("Comeau")
1022	Sutherland, Ivan "The Ultimate Display." Proceedings of IFIP Congress, pp. 506-508 (1965) ("Sutherland1965")
1023	Sutherland, Ivan "A head-mounted three dimensional display." Fall Joint Computer Conference, pp. 757-764 (1968) ("Sutherland1968")
1024	Moller, Henrik, et al. "Head-Related Transfer Functions of Human Subjects." J. Audio Eng. Soc., Vol. 43, No. 5, 1995, pp. 300-321 ("Moller")
1025	Akeroyd, Michael. "The psychoacoustics of binaural hearing." International Journal of Audiology, 45:sup1, 25-33 (2006) ("Akeroyd")
1026	Middlebrooks, John, et al. "Sound Localization by Human Listeners." Annual Review of Psychology, 1991. 42:135-39 ("Middlebrooks")
1027	<i>Eight KHZ, LLC v. Meta Platforms, Inc. et al.</i> , 6:22-cv-575-ADA-DTG (W.D. Tex.), Plaintiff's Claim Construction Reply Brief (ECF 92) ("8KHZ Claim Construction Brief")
1028	RESERVED

Exhibit	Description
1029	RESERVED
1030	RESERVED
1031	Cheng, Corey, et al. "Moving Sound Source Synthesis for Binaural Electroacoustic Music Using Interpolated Head-Related Transfer Functions (HRTFs)." ("Cheng")
1032	May 22, 2023 Deposition Transcript of Durand Begault, Ph.D. from <i>Eight KHZ, LLC v. Meta Platforms, Inc. et al.</i> , 6:22-cv-575-ADA-DTG (W.D. Tex.)
1033	U.S. Patent No. 257,453 to Ader("Ader")
1034	Olson, Harry. "Sound Reproducing Systems - Monaural, Binaural, Monophonic, and Stereophonic." Audio, 1958 ("Olson")
1035	Kyriakakis, Chris. "Fundamental and Technological Limitations of Immersive Audio Systems." Proceedings of the IEEE, Vol. 86, No. 5, 1998 ("Kyriakakis 1998")
1036	Begault, Durand. "3-D Sound for Virtual Reality and Multimedia." 2000 ("Begault")
1037	Vertesi, Janet. "Seamful Space: Heterogeneous Infrastructures in Interaction." Science, Technology, & Human Values 2014, Vol. 39:2, 264-284 ("Vertesi")
1038	Torrejon, Alfonso, et al. "Improving Communication and Presence in Online Telepresence Systems." Workshop Proceedings of the 9th International Conference on Intelligent Environments, 2013 ("Torrejon")
1039	RESERVED
1040	RESERVED

Exhibit	Description
1041	RESERVED
1042	RESERVED
1043	RESERVED
1044	U.S. Patent No. 2,955,156 to Heilig (“Heilig”)
1045	Board Authorization Email re Petitioner’s Reply
1046	<i>Eight kHz, LLC v, Meta Platforms, Inc., Meta Platforms Technology, LLC, Twisted Pixel Games, LLC</i> , No, 6:22-cv-00575, Dkt. 149 (Oct. 17, 2023)
1047	D. Begault, et al., <i>Headphone Localization of Speech Stimuli</i> , Proceedings of the Human Factors Society 35 th Annual Meeting, 82-86 (1991)
1048	Durand R. Begault, et al., <i>Headphone Localization of Speech</i> , Human Factors, 35(2), 361-776 (1993)
1049	<i>Improved HRTF-Based Pseudostereophony, Monaural are filtered digitally to obtain pseudosterophonic output signals</i> (April 2000)
1050	Areti Andreopoulou, et al., <i>Inter-Laboratory Round Robin HRTF Measure Comparison</i> , 9(5) 895-906 (2015)
1051	Deposition Transcript of Durand Begault, Ph.D. (July 3, 2024)
1052	U.S Patent No. 4,136,260 to Asahi (“Asahi”)
1053	B.B. Bauer, <i>Stereophonic Earphones and Binaural Loudspeakers</i> , Journal of the Audio Engineering Society, 2 (9) 148-151 (April 1961)
1054	Fabio Kaiser, Transaural Audio – The reproduction of binaural signals over loudspeakers, 1-34 (March 2011)

Exhibit	Description
1055	Declaration of Chris Kyriakakis in Support of Petitioner's Reply ("Kyriakakis Reply")
1056	Petitioner's Demonstratives

Dated: October 25, 2024

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CERTIFICATE OF SERVICE

The undersigned certifies that a true and correct copy of **PETITIONER'S UPDATED EXHIBIT LIST** was served via electronic email on Patent Owner's counsel of record listed below, pursuant to its Mandatory Notices, on October 25, 2024:

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