UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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VALEO NORTH AMERICA, INC., VALEO S.A., VALEO GMBH,
VALEO SCHALTER UND SENSOREN GMBH,
AND CONNAUGHT ELECTRONICS LTD.,

Petitioner,

v.

MAGNA ELECTRONICS, INC.,

Patent Owner.
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Case IPR2015-01410[1]
Patent 8,643,724 B2

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PETITIONERS' FIFTH AMENDED APPENDIX OF EXHIBITS

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[1]   Case IPR2015-01414 has been consolidated with this proceeding.

Exhibit No.	Description
1001	U.S. Patent No. 8,643,724 to Schofield
1002	Japanese Publication No. JP H7-30149 assigned to Masatoshi Yamamoto
1003	Certified English Translation of Japanese Publication No. JP H7-30149 assigned to Masatoshi Yamamoto ("Yamamoto")
1004	Japanese Publication No. H2-117935 assigned to Mitsubishi Motors Corporation
1005	Certified English Translation of Japanese Publication No. H2-117935 assigned to Mitsubishi Motors Corporation ("Mitsubishi")
1006	U.S. Patent No. 6,553,130 to Lemelson ("Lemelson")
1007	Japanese Publication No. JPA64-14700 assigned to Aishin Warner Kabushiki-Kaisha
1008	Certified English Translation of Japanese Publication No. JPA64-14700 assigned to Aishin Warner Kabushiki-Kaisha ("Aishin")
1009	Wang, G., et al. "CMOS Video Cameras", IEEE, 1991, dated May 27-31, 1991 ("Wang")
1010	Great Britain Patent No. GB 2233530 assigned to Fuji Jukogyo Kabushiki Kaisha ("Fuji")
1011	Japanese Publication No. H2-36417 assigned to Niles Co., Ltd.
1012	Certified English Translation of Japanese Publication No. H2-36417 assigned to Niles Co., Ltd. ("Niles")
1013	U.S. Patent No. 4,963,788 to King ("King")
1014	U.S. Patent No. 4,966,441 to Conner ("Conner")
1015	U.S. Patent No. 5,793,420 to Schmidt ("Schmidt")

Exhibit No.	Description
1016	SAE Paper No. 871288 to Otsuka ("Otsuka")
1017	U.S. Patent No. 4,833,534 to Paff ("Paff")
1018	U.S. Patent No. 4,390,895 to Sato ("Sato")
1019	SAE Paper No. 890288 to Goesch ("Goesch")
1020	Expert Declaration of Dr. George Wolberg
1021	Dr. George Wolberg Curriculum Vitae
1022	Expert Declaration of Dr. Ralph Willhelm
1023	Dr. Ralph Willhelm Curriculum Vitae
1024	Robert Nathan, Digital Video Data Handling, NASA JPL Tech Report 32-877, Pasadena, CA, Jan. 5, 1966
1025	P. Burt et al., A Multiresolution Spline with Application to Image Mosaics, ACM Transactions on Graphics, Vol.2. No. 4, Pages 217-236, October 1983
1026	Lisa Gottesfeld Brown, A Survey of Image Registration Techniques, vol.24, ACM Computing Surveys, pp. 325-376, 1992
1027	George Wolberg, Digital Image Warping, IEEE Computer Society Press, 1990.
1028	N. Greene et al., Creating Raster Omnimax Images from Multiple Perspective Views Using the Elliptical Weighted Average Filter, IEEE Computer Graphics and Applications ,vol. 6, no. 6, pp. 21-27, June 1986.
1029	Richard Szeliski, Image Mosaicing for Tele-Reality Applications, DEC Cambridge Research Laboratory, CRL 94/2, May 1994.
1030	G. Wolberg, "A Two-Pass Mes Warping Implementation of Morphing," Dr. Dobb's Journal, no. 202, July 1993.

Exhibit No.	Description
1031	T. Porter and T. Duff, "Compositing Digital Images," *Computer Graphics* (Proc. Siggraph), vol. 18, no. 3. pp.253-259, July 1984.
1032	SAE Paper No. 750364 to Nolan
1033	SAE Paper No. 890282 to Corsi
1034	SAE Paper No. 890283 to Brandt
1035	SAE Paper No. 860173 to Ortega
1036	SAE Paper No. 930456 to Gumkowski
1037	U.S. Patent No. 6,693,524 to Payne
1038	SAE Paper No. 770274 to Smith
1039	Declaration of Gerard Grenier in Support of IEEE Publication Wang, G., et al "CMOS Video Cameras"
1040	Tremblay, M., et al High resolution smart image senor with integrated parallel analog processing for multiresolution edge extraction, Robotics and Autonomous Systems 11 (1993), pp. 231-242
1041	Abstract for the Publication of High Resolution Smart Image Sensor
1042	Lu, M., et al. On-chip Automatic Exposure Control Technique, Solid-State Circuits Conference, 1991. ESSCIRC '91. Proceedings - Seventeenth European (Volume:1)
1043	IEEE.org Abstract On-chip Automatic Exposure Control Technique
1044	CMOS sensor page of University of Edinburgh
1045	*In re Magna Electronics, Inc.*, 611 Fed. App'x 969 (Fed. Cir. 2015)

Exhibit No.	Description
1046	Wang, G., et al. "CMOS Video Cameras", IEEE, 1991, dated May 27-31, 1991, pp. 100-103 (Copy obtained from Linda Hall Library, Kansas City, Missouri)
1047	Okabayashi, S., et al. "Driver's Ability to Recognize the Forward View and Head-Up Display Images in Automobiles," J. Light & Vis. Env. Vol. 16, No. 2 (1992), pp. 61-69 **(served not filed)**
1048	Parenti, R.R., "Application of Fourier-Space Image-Restoration techniques to Turbulence Compensation and Sparse-Aperture Imaging." Massachusetts Institute of Technology - Lincoln Laboratory (June 1994) (Stamped copy obtained from the Defense Technical Information Center, U.S. Department of Defense) **(served not filed)**
1049	Nathan, R., "Digital Video-Data Handling," NASA JPL Tech Report 32-877, California Institute of Technology - Jet Propulsion Laboratory, Pasadena, CA, Jan. 5, 1966 (Stamped copy obtained from the Schwerdtfeger Library, University of Wisconsin- Madison, Madison, Wisconsin) **(served not filed)**
1050	SAE Paper No. 920741 to Sugita ("Sugita"), "Head-up Display Using a Hologram as an Optical Element" **(served not filed)**
1051	Irani, M. et al., "Video compression using mosaic representations," Signal Processing: *Image Communication* 7 (1995), pp. 529-552 **(served not filed)**
1052	McMillan, L. et al., "Plenoptic Modeling: An Image-Based Rendering System." Proceedings of SIGGRAPH 95, Los Angeles, CA, Aug. 6-11, 1995, pp 39-46 **(served not filed)**
1053	File History of U.S. Application No. 14/211,256 **(served not filed)**
1054	Transcript of December 18, 2014 Deposition of Gerard P. Grenier, In the *Inter Partes* Review of U.S. Patent. 7,859,565 (IPR2014-00220)

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