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UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

GLOBAL TEL*LINK CORPORATION
Petitioner

v.

SECURUS TECHNOLOGIES, INC.
Patent Owner

PETITION FOR INTER PARTES REVIEW OF U.S. PATENT NO. 9,007,420

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2. "Feature detection process" means "a process for detecting characteristics of an image, such as measurements of features of a face at a plurality of points on the image." 23

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EXHIBIT LIST

GTL Exhibit #	*Description*
1001	U.S. Patent No. 9,007,420 to Passe, filed January 10, 2014, issued April 14, 2015.
1002	Prosecution History of U.S. Patent No. 9,007,420.
1003	U.S. Patent Application Publication No. 2012/0262271 by Torgersrud *et al.*, filed April 18, 2011, published October 18, 2012.
1004	U.S. Patent No. 8,218,829 to Kenoyer, filed July 31, 2006, issued July 10, 2012.
1005	U.S. Patent No. 7,436,988 to Zhang *et al.*, filed June 3, 2005, issued Oct. 14, 2008.
1006	Declaration of Dr. Hoyamoon Beigi.
1007	E. Hjelmås *et al.*, "Face detection: A Survey," Computer Vision and Image Understanding, Vol. 83, No. 3, September 2001; pp. 236-74.
1008	M. Yang *et al.*, "Detecting Faces in Images: A Survey," IEEE Transactions on Pattern Analysis and Machine Intelligence, Vol. 24, No. 1, January 2002; pp. 34-58.
1009	C. Zhang *et al.*, "A Survey of Recent Advances in Face Detection," Microsoft Research Technical Report No. MSR-TR-2010-66, Microsoft Corporation, 2010.
1010	M. Kirby *et al.*, "Application of the Karhunen-Loeve Procedure for the Characterization of Human Faces,", IEEE Transactions on Pattern Analysis and Machine Intelligence, Vol. 12, No. 1, January 1990; pp. 103-08.
1011	M. Turk *et al.*, "Eigenfaces for Recognition," Journal of Cognitive Neuroscience, Vol. 3, No. 1, 1991; pp. 71-86.
1012	J. Cartoux *et al.*, "Face Authentication or Recognition by Profile Extraction from Range Images," IEEE Proceedings of the Workshop on Interpretation of 3D Scenes, November 1989; pp. 194-99.
1013	K. Bowyer *et al.*, "A survey of approaches and challenges in 3D and multi-modal 3D+2D face recognition," Computer Vision and Image Understanding, Vol. 101, No. 1, 2006; pp. 1-15.
1014	U.S. Patent No. 9,064,257 to Beigi, filed November 2, 2011, issued June 23, 2015.

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GTL Exhibit #	*Description*
1015	U.S. Patent No. 6,219,640 to Basu *et al.*, filed August 6, 1999, issued April 17, 2001.
1016	P. Viola *et al.*, "Rapid Object Detection Using a Boosted Cascade of Simple Features," Computer Vision and Pattern Recognition, 2001.
1017	L.Sanchez Lopez, "Local Binary Patterns Applied to Face Detection and Face Recognition," Final Research Project, Universitat Politecnica de Catalunya, November 2010.
1018	Y. H. Huang *et al.*, "Face Detection and Smile Detection," Proceedings of IPPR Conference on Computer Vision, Graphics, and Image Processing, Shitou, Taiwan, A5-6, 2009.
1019	M. Felsberg, "Robot Vision Systems, PhD course spring term 2015," Computer Vision Laboratory PowerPoint Presentation, 2015.

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