

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

VALVE CORPORATION,
Petitioner,

v.

IMMERSION CORPORATION,
Patent Owner.

Case No. IPR2024-00556
Patent No. 8,749,507

**PETITIONER'S UNOPPOSED MOTION FOR *PRO HAC VICE*
ADMISSION OF NATHAN R. SPEED**

LISTING OF EXHIBITS

Exhibit	Description
1001	U.S. Patent No. 8,749,507
1002	Prosecution History of U.S. Patent No. 8,749,507
1003	Declaration of Jean Renard Ward
1004	CV of Jean Renard Ward
1005	U.S. Patent No. 6,590,568, “Touch Screen Drag And Drop Input Technique” (“Astala”)
1006	U.S. Patent Pub. No. US 2002/0033795, “Haptic Interface For Laptop Computers And Other Portable Devices” (“Shahoian”)
1007	U.S. Patent Pub. No. 2002/0057263, “Simulating Gestures of A Pointing Device Using A Stylus And Providing Feedback Thereto” (“Keely”)
1008	U.S. Patent No. 7,256,773, “Detection of A Dwell Gesture By Examining Parameters Associated With Pen Motion” (“Kolmykov-Zotov” or “KZ”)
1009	U.S. Patent No. 5,943,044, “Force Sensing Semiconductive Touchpad” (“Martinelli”)
1010	U.S. Patent No. 5,734,373, “Method And Apparatus For Controlling Force Feedback Interface Systems Utilizing A Host Computer” (“Rosenberg”)
1011	U.S. Patent No. 6,791,536, “Simulating Gestures of A Pointing Device Using A Stylus And Providing Feedback Thereto” (“Keely-536”)
1012	U.S. Prov. App. No. 60/247,841, “High Level Active Pen Matrix” (“Keely-841”)
1013	U.S. Prov. App. No. 60/247,400, “System and Method For Accepting Disparate Types Of User Input” (“Keely-400”)
1014	U.S. Patent No. 5,880,411, “Object Position Detector With Edge Motion Feature And Gesture Recognition” (“Gillespie”)

Exhibit	Description
1015	Order 27, Construing the Terms of the Asserted Claims of the Patent At Issue, <i>In the Matter of Certain Mobile and Portable Electronic Devices Incorporating Haptics (Including Smartphones and Laptops) and Components Thereof</i> , Inv. Nos. 337-TA-1004, 337-TA-990 (Feb. 2, 2017)
1016	S.K. Lee et al., “A Multi-Touch Three Dimensional Touch-Sensitive Tablet,” <i>ACM Sigchi Bulletin</i> , vol. 16, no. 4, pp. 21-25 (1985) (“Lee85”)
1017	<i>The New Oxford American Dictionary</i> (Oxford University Press 2001)
1018	<i>Microsoft Computer Dictionary</i> (5th ed. 2002)
1019	Chart comparing ’507 patent claim language
1020	U.S. Patent No. 8,164,573, “Systems And Methods For Adaptive Interpretations Of Input From A Touch-Sensitive Input Device”
1021	Prosecution History of U.S. Patent No. 8,164,573
1022	<i>Apple Inc. v. Immersion Corp.</i> , IPR2016-01777, Paper 1 (Sep. 12, 2016)
1023	<i>Apple Inc. v. Immersion Corp.</i> , IPR2016-01777, Paper 7 (Mar. 23, 2017)
1024	<i>Apple Inc. v. Immersion Corp.</i> , IPR2017-01310, Paper 1 (Apr. 21, 2017)
1025	<i>Apple Inc. v. Immersion Corp.</i> , IPR2017-01310, Paper 7 (Aug. 9, 2017)
1026	<i>Apple Inc. v. Immersion Corp.</i> , IPR2017-01310, Paper 8 (Nov., 2, 2017)
1027	U.S. Patent Pub. No. U.S. 2004/0150631, “Method Of Triggering Functions In A Computer Application Using A Digitizer Having A Stylus And A Digitizer System” (“Fleck”)
1028	<i>Ex parte DaCosta</i> , No. 2009-015440 (PTAB Dec. 14, 2011)
1029	Federal Court Management Statistics (September 2023)
1030	Davis, “The RAND Tablet: A Man-Machine Graphical Communication Device” in Proceedings-Fall Joint Computer Conference (1964)
1031	U.S. Patent No. 3,482,241
1032	U.S. Patent No. 5,708,460
1033	U.S. Patent No. 6,492,979

Exhibit	Description
1034	U.S. Patent No. 5,510,813
1035	Buxton, "Touch Gesture and Marking," ch. 7 in Baecker, ed., Readings in Human-Computer Interaction (1995)
1036	U.S. Patent No. 6,160,489
1037	Strong, "An Electrotactile Display," IEEE, Trans. On Man-Machine Sys., mms-11:1 (Mar. 1970)
1038	Massie, "Initial Haptic Explorations with the Phantom: Virtual Touch Through Point Interaction" MIT Thesis (1996)
1039	Bliss, "Optical-to-Tactile Image Conversion for the Blind," IEEE, Trans. On Man-Machine Sys., mms-11:1 (Mar. 1970)
1040	European Patent Publication No. EP0265011A1
1041	U.S. Patent No. 5,388,992
1042	IBM, "Mouse Ball-Actuating Device with Force and Tactile Feedback," IBM Technical Disclosure Bulletin 32:9B (Feb. 1990)
1043	Fukumoto, "Active Click Tactile Feedback for Touch Panels," CHI 2001 Interactive Posters (2001)
1044	PCT Publication No. WO9200559A1
1045	Massie, "The Phantom Haptic Interface—A Device for Probing Virtual Objects" in ASME, Dynamic Systems and Control (1994)
1046	U.S. Patent No. 5,982,352
1047	U.S. Patent No. 6,131,097
1048	U.S. Patent No. 6,337,678
1049	U.S. Patent No. 6,219,034
1050	U.S. Patent No. 6,219,032
1051	U.S. Patent No. 4,885,565
1052	U.S. Patent No. 6,424,333
1053	Negroponete, "HUNCH An Experiment in Sketch Recognition" in UCLA, Environmental Design: Research and Practice, Proceedings of the EDRA 3/ar 8 Conference (1972)

Exhibit	Description
1054	Foley, Fundamentals of Interactive Computer Graphics (1982) (excerpts)
1055	Buxton, "There's More to Interaction than Meets the Eye" in Norman, ed., User Centered Systems Design (1986)
1056	Rosch, "Alterative Input-Digitizing Tablets-Pointing the Way to Easier Input," PC Magazine, p. 227 (Nov. 28, 1989)
1057	U.S. Patent No. 5,491,495
1058	Buxton, "Issues and Techniques in Touch-Sensitive Tablet Input," SIGGRAPH '85, 19:3, 215 (1985)
1059	U.S. Patent No. 4,202,041
1060	U.S. Patent No. 494,562
1061	U.S. Patent No. 5,673,066
1062	U.S. Patent No. 5,680,126 ("Kikinis")
1063	U.S. Patent No. 7,336,260 ("Martin")
1064	J. R. Ward and M. J. Phillips, "Digitizer Technology: Performance Characteristics and the Effects on the User Interface," in <i>IEEE Computer Graphics and Applications</i> , vol. 7, no. 4, pp. 31-44, April 1987.
1065	U.S. Patent No. 5,734,373 ("Rosenberg-373")
1066	U.S. Patent No. 5,053,757 ("Meadows")
1067	James R. Taggart, M.S. Thesis. "Reading a Sketch by Hunch" (MIT, 1973).
1068	U.S. Patent No. 5,245,139 ("Protheroe")
1069	U.S. Patent No. 5,543,591 ("Gillespie-591")
1070	G.P. Kurtenbach, Dissertation. "The Design and Evaluation of Marking Menus," University of Toronto, 1993.
1071	U.S. Patent Pub. No. 2005/0162411 ("VanBerkel")
1072	U.S. Patent No. 5,231,381 ("Duwaer")
1073	U.S. Patent No. 5,117,071 ("Greanias")

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