

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

LIBERTY MUTUAL INSURANCE CO.

Petitioner

v.

PROGRESSIVE CASUALTY INSURANCE CO.

Patent Owner

Case CBM2013-00009

Patent 8,140,358

Before the Honorable JAMESON LEE, JONI Y. CHANG, and MICHAEL R. ZECHER, *Administrative Patent Judges*.

**PETITIONER LIBERTY MUTUAL INSURANCE CO.'S REPLY TO
PATENT OWNER PROGRESSIVE CASUALTY INSURANCE CO.'S
RESPONSE**

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EXHIBIT LIST

Exhibit 1001	United States Patent No. 8,140,358
Exhibit 1002	United States Patent No. 8,140,358 File History
Exhibit 1003	Japan Patent Application H4-182868, filed on November 19, 1990, and published on June 30, 1992 (“Kosaka”)
Exhibit 1004	Geostar, Understanding Radio Determination Satellite Service (Jane Pierce & Marilyn Finley ed.) (May 1989) (“RDSS”)
Exhibit 1005	Geostar Corp., Annual Report (Form 10-K) (Apr. 16, 1990) (“Geostar 10-K”)
Exhibit 1006	United States Patent No. 5,446,757, filed on June 14, 1993, and issued on August 29, 1995 (“Chang”)
Exhibit 1007	United States Patent No. 5,210,854, filed on June 14, 1989, and issued on May 11, 1993 (“Beaverton”)
Exhibit 1008	United States Patent No. 7,228,211, filed on March 26, 2004, and issued on June 5, 2007 (“Lowrey”)
Exhibit 1009	“QUALCOMM’s MSM6500 Multimedia Single-Chip Solution Enables High-Performance Multimode Handsets Supporting CDMA2000 1X, 1xEV-DO and GSM/GPRS,” PR Newswire, published November 12, 2002 (“MSM6500 Press Release”)
Exhibit 1010	United States Patent No. 5,797,134
Exhibit 1011	United States Patent No. 6,064,970
Exhibit 1012	United States Patent No. 6,868,386
Exhibit 1013	United States Patent No. 8,090,598
Exhibit 1014	Declaration of Scott Andrews, dated November 19, 2012

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Exhibit 1015	Curriculum vitae of Scott Andrews and List of Matters
Exhibit 1016	OBD-II Background—Where'd It Come From?, http://www.OBDii.com/background.html (follow "Where'd it come from?" hyperlink)
Exhibit 1017	Excerpt from Shuji Mizutani, Car Electronics, page 250 (Nippondenso Co. Ltd. 1992)
Exhibit 1018	Excerpt from David S. Boehner, Automotive Microcontrollers, in Automotive Electronics Handbook, pages 11.24-11.29 (Ronald K. Jurgen ed., 1995)
Exhibit 1019	Robert D. Briskman, "Radio Determination Satellite Service," Proceedings of the IEEE, Vol. 78, No. 7 (July 1990)
Exhibit 1020	Declaration of Amanda F. Wiekler
Exhibit 1021	Declaration of GeorGINNE Blundell
Exhibit 1022	United States Patent No. 5,465,079, filed on August 13, 1993, and issued on November 7, 1995 ("Bouchard")
Exhibit 1023	United States Patent No. 4,651,157, filed on May 7, 1985, and issued on March 17, 1987 ("Gray")
Exhibit 1024	United States Patent No. 5,438,312, filed on April 19, 1994 and issued on August 1, 1995 ("Lewis")
Exhibit 1025	United States Patent No. 5,243,530, filed on July 26, 1991, and issued on September 7, 1993 ("Stanifer")
Exhibit 1026	[Number assigned in PRPS to Power of Attorney]
Exhibit 1027	Rebuttal Declaration of Scott Andrews, dated August 16, 2013 ("Andrews Rebuttal Dec.")

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Exhibit 1028	J.P. Johnson, K. M. Rahman, & M. Ehsani, “Application of a Clustering Adaptive Fuzzy Logic Controller in a Brushless DC Drive,” IEEEIECON’ 97, New Orleans, LA, November 1997
Exhibit 1029	Reza Langari & John Yen, <i>Fuzzy Logic: Intelligence, Control, and Information</i> (1999)
Exhibit 1030	Robert Bosch GmbH, CAN Specification Version 2.0 (1991)
Exhibit 1031	Rebuttal Declaration of Mary L. O’Neil, dated August 16, 2013 (“O’Neil Rebuttal Dec.”)
Exhibit 1032	Curriculum vitae of Mary L. O’Neil and List of Matters
Exhibit 1033	Interpretative Opinion 4: Actuarial Principles and Practices (1982) of the American Academy of Actuaries
Exhibit 1034	Arnold F. Shapiro, <i>An Overview of Insurance Uses of Fuzzy Logic</i> , in Paul P. Wang, <i>et al.</i> , eds., <i>Computational Intelligence in Economics and Finance Volume II</i> pp. 25-61 (Chapter One) (Springer Berlin Heidelberg, 2007).
Exhibit 1035	Luis A. Carreno, <i>et al.</i> , <i>A Fuzzy Expert System Approach to Insurance Risk Assessment Using FuzzyCLIPS</i> , in <i>WESCON Conference Record</i> pp.536-541 (1993) (reference no. 13 from Shapiro Article at 58).
Exhibit 1036	Jean Lemaire, <i>Fuzzy Insurance</i> , ASTIN Bulletin International Actuarial Association Vol. 20, No. 1, pp.33-56 (1990).
Exhibit 1037	Richard A. Derrig, <i>et al.</i> , <i>Fuzzy Techniques of Pattern Recognition in Risk and Claim Classification</i> , <i>Journal of Risk and Insurance</i> Vol. 62, No.3, Sept. 1995.
Exhibit 1038	Virginia R. Young, <i>Adjusting Indicated Insurance Rates: Fuzzy Rules that Consider Both Experience and Auxiliary Data</i> , in <i>Proceedings of the Casualty Actuarial Society Casualty Actuarial Society - Arlington, Virginia, 1997</i> , pp.734-765.
Exhibit 1039	Ex. 2020 in CBM2012-00002 (Supplemental Declaration of Michael J. Miller)

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