

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

FORD MOTOR COMPANY
Petitioner,

v.

PAICE LLC
Patent Owner.

U.S. Patent No. 7,455,134 to Severinsky et al.

IPR Case No.: IPR2014-00852

**SECOND PETITION FOR *INTER PARTES* REVIEW
UNDER 35 U.S.C. § 311 *ET SEQ.* AND 37 C.F.R. § 42.100 *ET SEQ.*
(CLAIMS 1-3, 5-6, 19, 27, 40 and 58 OF U.S. PATENT NO. 7,455,134)**

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EXHIBIT LIST

| Exhibit No. | Description | Identifier |
|-------------|---|------------------------------------|
| 1101 | U.S. Patent No. 7,455,134 | '134 Patent |
| 1102 | Declaration of Dr. Jeffrey L. Stein | Stein Decl. |
| 1103 | U.S. Patent No. 5,586,613 | Ehsani |
| 1104 | U.S. Patent No. 4,335,429 | Kawakatsu |
| 1105 | U.S. Patent No. 5,865,263 | Yamaguchi |
| 1106 | Gao et al., <i>The Energy Flow Management and Battery Energy Capacity Determination for the Drive Train and Electrically Peaking Hybrid Vehicle</i> , SAE 972647 (1997) | Ehsani NPL (non-patent literature) |
| 1107 | Vittone, <i>Fiat Conceptual Approach to Hybrid Car Design</i> ," 12 th International Electric Vehicle Symposium, 1994) | Vittone |
| 1108 | File History for U.S. Patent No. 7,455,134 | '134 File History |
| 1109 | John B. Heywood, <i>Internal Combustion Engine Fundamentals</i> (McGraw-Hill 1988) | Heywood |
| 1110 | Hawley, G.G., <i>The Condensed Chemical Dictionary</i> , Van Nostrand Reinhold Co., 9 th ed. (1977) | The Condensed Chemical Dictionary |
| 1111 | Michael Duoba, Ctr. for Transp. Research, Argonne Nat'l Lab., <i>Challenges for the Vehicle Tester in Characterizing Hybrid Electric Vehicles</i> , 7th CRC on Road Vehicle Emissions Workshop (April 1997) | Duoba |
| 1112 | Kozo Yamaguchi et al., <i>Development of a New Hybrid System – Dual System</i> , SAE Technical Paper 960231 (February 1996) | Yamaguchi Paper |
| 1113 | General Electric Company, Corp. Research & Dev., <i>Near-Term Hybrid Vehicle Program, Final Report - Phase 1</i> (October 1979) | GE Final Report |

| Exhibit No. | Description | Identifier |
|-------------|---|--------------------|
| 1114 | U.S. Patent No. 5,343,970 | Severinsky '970 |
| 1115 | Claim Construction Order (Case No. 2:04-cv-00211) | Toyota Litigation |
| 1116 | Plaintiff Paice LLC and Abell Foundation, Inc.'s Opening Claim Construction Brief (Case No. 1:12-cv-00499) | Hyundai Litigation |
| 1117 | U.S. Patent No. 913,846 | Pieper |
| 1118 | Society of Automotive Engineers Special Publication, <i>Technology for Electric and Hybrid Vehicles</i> , SAE SP-1331 (February 1998) | SAE SP-1331 |
| 1119 | Catherine Anderson & Erin Pettit, <i>The Effects of APU Characteristics on the Design of Hybrid Control Strategies for Hybrid Electric Vehicles</i> , SAE Technical Paper 950493 (1995) | Anderson |
| 1120 | U.S. Patent No. 3,888,325 | Reinbeck |
| 1121 | L. E. Unnewehr et al., <i>Hybrid Vehicle for Fuel Economy</i> , SAE Technical Paper 760121 (1976) | Unnewehr |
| 1122 | Brown, T.L. et al., <i>Chemistry, The Central Science</i> , Third Edition (1985) | Brown |
| 1123 | Grunde T. Engh & Stephen Wallman, <i>Development of the Volvo Lambda-Sond System</i> , SAE Technical Paper 770295 (1977) | Engh |
| 1124 | A. G. Stefanopoulou et al., <i>Engine Air-Fuel Ratio and Torque Control using Secondary Throttles</i> , Proceedings of the 33rd IEEE Conference on Decision and Control (December 1994) | Stefanopoulou |

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