

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

TOYOTA MOTOR CORPORATION

Petitioner

Patent No. 5,714,927

Issue Date: March 24, 1998

Title: METHOD OF IMPROVING ZONE OF COVERAGE RESPONSE OF
AUTOMOTIVE RADAR

**PETITION FOR *INTER PARTES* REVIEW
OF U.S. PATENT NO. 5,714,927
PURSUANT TO 35 U.S.C. § 312 and 37 C.F.R. § 42.104**

Case No. IPR2016-00293

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EXHIBITS

- Exhibit 1001 U.S. Patent No. 5,714,927 to Henderson et al.
- Exhibit 1002 U.S. Patent No. 5,517,196 to Pakett et al.
- Exhibit 1003 Japanese Laid Open Patent App. No. H4-348293 by Kawai et al.
- Exhibit 1004 English translation of Japanese Laid Open Patent App. H4-348293 by Kawai et al. and associated translation declaration
- Exhibit 1005 U.S. Patent No. 5,767,793 to Agravante et al.
- Exhibit 1006 U.S. Patent No. 5,508,706 to Tsou et al.
- Exhibit 1007 Excerpts from the File History of U.S. Patent No. 5,732,375 to Cashler
- Exhibit 1008 Order RE Claim Construction from *Signal IP v. American Honda Motor Co., Inc.*, No. 2:14-cv-02454 (C.D. Cal.)
- Exhibit 1009 Joint Claim Construction and Prehearing Statement from *Signal IP v. American Honda Motor Co., Inc.*, No. 2:14-cv-02454 (C.D. Cal.)
- Exhibit 1010 Expert Declaration of Dr. Nikos Papanikolopoulos

Pursuant to 35 U.S.C. §§ 311-319 and 37 C.F.R. Part 42, Toyota Motor Corporation (“Toyota” or “Petitioner”) respectfully requests *Inter Partes* Review of claims 1, 2, and 6 of U.S. Patent No. 5,714,927 (“the ’927 patent”), filed December 9, 1996 and issued Feb. 3, 1998 to Mark Ford HENDERSON et al., and currently assigned to Signal IP, Inc. (“Signal IP” or “the Patent Owner”) according to the U.S. Patent and Trademark Office (“the US PTO”) assignment records. There is a reasonable likelihood that Petitioner will prevail with respect to the claim challenged in this Petition.

I. MANDATORY NOTICES (37 C.F.R. § 42.8)

A. Real Party-In-Interest (37 C.F.R. § 42.8(b)(1))

Petitioner, Toyota, and its corporate subsidiaries Toyota Motor Sales U.S.A., Inc. and Toyota Motor North America, Inc. are the real parties-in-interest.

B. Related Matters (37 C.F.R. § 42.8(b)(2))

The ’927 patent is currently the subject of the following on-going litigations: *Signal IP, Inc. v. Toyota Motor North America, Inc. et al.*, No. 2:15-cv-05162 (C.D. Cal.) (“C.D. Cal. *Signal IP v. Toyota* litigation”); *Signal IP, Inc. v. Volkswagen Group of America, Inc. et al.*, No. 2:14-cv-03113 (C.D. Cal.); *Signal IP, Inc. v. American Honda Motor Co., Inc. et al.*, No. 2:14-cv-02454 (C.D. Cal.); *Signal IP, Inc. v. BMW of North America, LLC, et al.*, No. 2:14-cv-03111 (C.D. Cal.); *Signal IP, Inc. v. Jaguar Land Rover North America, LLC*, No. 2:14-cv-03108 (C.D. Cal.); *Signal IP, Inc. v. Kia Motors America, Inc.* No. 2:14-cv-02457

(C.D. Cal.); *Signal IP, Inc. v. Mazda Motor of America, Inc.*, No. 8:14-cv-00491 (C.D. Cal.); *Signal IP, Inc. v. Mitsubishi Motors North America, Inc.*, NO. 8:14-cv-00497 (C.D. Cal.); *Signal IP, Inc. v. Nissan North America, Inc.*, No. 2:14-cv-02962 (C.D. Cal.); *Signal IP, Inc. v. Porsche Cars North America, Inc.*, No. 2:14-cv-03114 (C.D. Cal.); *Signal IP, Inc. v. Subaru of America, Inc.*, No. 2:14-cv-02963 (C.D. Cal.); *Signal IP, Inc. v Volvo Cars of North America, LLC*, No. 2:14-cv-03107 (C.D. Cal.); *Signal IP, Inc. v. Fiat USA, Inc. et al.*, No. 2:14-cv-03105 (C.D. Cal.); *Signal IP, Inc. v. Ford Motor Company*, No. 2:14-cv-03106 (C.D. Cal.); *Signal IP, Inc. v. Mazda Motor of America, Inc.*, No. 2:14-cv-02459 (C.D. Cal.); *Signal IP, Inc. v. Hyundai Motor America*, 8:15-cv-01085 (C.D. Cal.); *Signal IP, Inc. v. Fiat U.S.A., Inc.*, No. 2:14-cv-13864 (E.D. Mich.); and *Signal IP, Inc. v. Ford Motor Company*, No. 2:14-cv-13729 (E.D. Mich.).

Claims 1, 2, and 6 of the '927 patent were also previously the subject of another petition for *inter partes* review ("IPR") filed by Volkswagen Group of America, Inc., Case IPR2015-00968. The Board issued a decision addressing the petition on August 22, 2015 and declined to institute IPR. (*See* IPR2015-00968, Decision Denying Institution of *Inter Partes* Review, Paper 6.)

C. Counsel & Service Information (37 C.F.R. §§ 42.8(b)(3)-(4))

Lead Counsel: A. Antony Pfeffer (Reg. No. 43,857)

Back-up Counsel: George E. Badenoch (Reg. No. 25,825) and John Flock (Reg.

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