UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

TOYOTA MOTOR CORPORATION,

Petitioner,

V.

SIGNAL IP, INC.,

Patent Owner.

Case IPR2016-00293

Patent 5,714,927

PATENT OWNER'S PRELIMINARY RESPONSE TO
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

TABLE OF CONTENTS

I.		Intr	roduction	1	
II.	A.		Background Overview of the '927 patent		
III.		_	Argument6 Claim construction6		
		1.	"alert signals" and "alert commands"	7	
		2.	Other claim terms	8	
	В.	Petitioner's Proposed Grounds for Institution Based on Pakett and Kawai Should be Denied9			
		1.	Overview of Pakett	10	
		2.	Overview of Kawai	11	
		3.	Neither Pakett nor Kawai discloses selecting a variab sustain time as a function of relative vehicle speed		
	C.	Petitioner's Proposed Grounds for Institution Based on Agravante and Tsou Should be Denied16			
		1.	Overview of Agravante	16	
		2.	Overview of Tsou	17	
		3.	Neither Agravante nor Tsou discloses selecting a varisustain time as a function of relative vehicle speed		
		4.	Tsou does not disclose "at the end of the alert comma determining whether the alert signal was active for a threshold time, and if [so], sustaining the alert signal the variable sustain time, wherein the zone of coverage appears to increase"	for ge	
IV.		Cor	nclusion	23	



TABLE OF AUTHORITIES

CASES
CFMT, Inc. v. Yieldup Int'l. Corp., 349 F.3d 1333 (Fed. Cir. 2003)
Cuozzo Speed Tech. LLC v. Lee, 793 F. 3d 1268, cert. granted 577 U.S, Case No. 15-466 (Jan. 15, 2016)
Grain Processing Corp. v. American Maize-Prods. Co., 840 F.2d 902 (Fed. Cir. 1988)23
<i>In re Morris</i> , 127 F.3d 1048 (Fed. Cir. 1997)6
Microsoft Corp. v. Proxyconn, Inc., 789 F.3d 1292 (Fed. Cir. 2015)6
PPC Broadband, Inc. v. Corning Optical Commun. RF, LLC, Nos. 2015-1361 et seq., 2016 WL 692368 (Fed. Cir. Feb. 22, 2016)8
Volkswagen Group of America, Inc. v. Signal IP, Inc., IPR2015-00968 (PTAB Aug. 25, 2015)
OTHER AUTHORITIES
Patent Trial Practice Guide, 77 Fed. Reg. 48756, 48766 (Aug. 14, 2012)6



I. INTRODUCTION

Petitioner Toyota Motor Corporation challenges the patentability of claims 1, 2, and 6 of U.S. Patent No. 5,714,927 ("the '927 patent"). Petition ("Pet.") at 4. The Patent Trial and Appeal Board should not institute *inter partes* review of the '927 patent because Toyota has not met its burden to show a reasonable likelihood that any challenged claim is unpatentable.

Toyota has proposed two independent grounds in its petition, but both of them suffer from the same flaw: they do not teach a method involving "selecting a variable sustain time as a function of relative vehicle speed."

None of the references identified by Toyota were concerned with compensating for the reduced accuracy of radar detection at low relative vehicle speeds by increasing alert signal times as a function of relative vehicle speed. Consequently, both grounds are a product of hindsight reconstruction, and are insufficient to merit an *inter partes* review.

II. BACKGROUND

A. Overview of the '927 patent

The '927 patent describes an improved method for using side detection radar to warn a driver about other vehicles occupying the blind spot of the driver's vehicle by controlling an audible or visual alert signal.



Ex. 1001 at Abstract; *id.* at 3:10-13. When the situation warrants it, the alert signal indicating that a target vehicle is in the blind spot should be maintained even where the raw signal sensed by the radar system drops, and a corresponding alert command is turned off. *Id.* at 2:9-34. By implementing rules for maintaining an alert signal for the driver even in the absence of an alert command from the detector (at a particular time point), the method results in a "steady alert signal" and provides "greater assurance that the blind spot is free of an object." *Id.* at 5:17-23; 4:19-21. The method also reduces alert signal flickering when a target enters or clears a detection zone. *Id.* at 5:23-25.

For example, certain parts of a target vehicle such as wheel wells can give rise to reduced or absent signal from a detector, called alert "dropout." *Id.* at 1:45-50. Such false negative dropouts should not result in turning off a warning indicator provided to the driver, as in this case the obstacle is still present in the blind spot. *See id.* at Fig. 3. Loss of an alert signal because of a dropout can be avoided by requiring that the alert signal remain active for a threshold period of time if, after activation, the alert command is lost. *Id.* at 2:15-25.



DOCKET

Explore Litigation Insights



Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time** alerts and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.

