## Marvell Semiconductor, Inc. v. Uniloc 2017 LLC

IPR2019-01349 IPR2019-01350 U.S. Patent 7,016,676

Patent Owner's Demonstrative Exhibits

Before JAMESON LEE, KEVIN F. TURNER, MICHELLE N. WORMMEESTER, Administrative Pa

**November 12, 2020** 



# '676 Patent to Bernhard Walke and Stefan I

### (12) United States Patent Walke et al.

- (54) METHOD, NETWORK AND CONTROL STATION FOR THE TWO-WAY ALTERNATE CONTROL OF RADIO SYSTEMS OF DIFFERENT STANDARDS IN THE SAME FREQUENCY BAND
- (75) Inventors: Bernhard Walke, Wuerselen (DE); Stefan Mangold, Aachen (DE)
- (73) Assignee: Koninklijke Philips Electronics N.V., Eindhoven (NL)
- (\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 411 days.
- (21) Appl. No.: 10/089.959
- (22) PCT Filed: Aug. 8, 2001
- (86) PCT No.: PCT/EP01/09258 § 371 (c)(1), (2), (4) Date: Apr. 4, 2002
- (87) PCT Pub. No.: WO02/13457 PCT Pub. Date: Feb. 14, 2002
- Prior Publication Data
- US 2002/0168979 A1 Nov. 14, 2002 (51) Int. Cl.
- H04Q 7/20 (52) U.S. Cl. ..... (2006.01)**455/434**; 455/553.1; 455/434.2; 370/466; 370/467

- US 7,016,676 B2 (10) Patent No.: (45) Date of Patent: Mar. 21, 2006
- (58) Field of Classification Search

See application file for complete search history.

#### References Cited (56)U.S. PATENT DOCUMENTS

5,239,662	A		8/1993	Danielson et al 709/246
5,710,766	A		1/1998	Schwendeman 370/329
6,052,594	A		4/2000	Chuang et al 455/450
6,310,866	BI	*	10/2001	Kronestedt et al 370/330
6,377,782	BI		4/2002	Bishop et al 455/3.01
6,501,741	BI		12/2002	Mikkonen et al 370/310
6,580,700	BI		6/2003	Pinard et al 370/332
6,587,680	BI		7/2003	Ala-Laurila et al 455/411
6,631,259	BI	*	10/2003	Pecen et al 455/426.1
6,687,243	BI		2/2004	Sayers et al 370/356
6,728,244	B1		4/2004	Takabatake 370/392
6,735,452	BI	*	5/2004	Foster et al 455/562.1
6,754,200	B1	*	6/2004	Nishimura et al 370/349
6,792,286	BI	٠	9/2004	Bharath et al 455/554.2

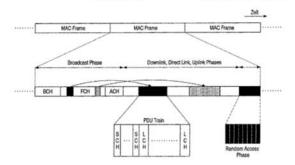
### FOREIGN PATENT DOCUMENTS

EP	1119137 A1	1/2000
WO	WO9923790	10/1998

\* cited by examiner

The invention relates to an interface-control protocol method for a radio system, which has at least one frequency band provided for the two-way alternate utilization of a first and a second radio interface standard. The radio system comprises a number of stations, which each function in accordance with a first radio interface standard and/or in accordance with a second radio interface standard, in which a control station is provided that controls the two-way alternate utilization of the frequency band.

### 9 Claims, 3 Drawing Sheets



DEMONSTR



## Claim 1

1. An interface-control protocol method for a radio system which one common frequency band that is provided for alternate use by a second radio interface standard, the radio system comprising:

stations which operate in accordance with a first radio interfa and/or a second radio interface standard, and

a control station which controls the alternate use of the frequence

wherein the control station controls the access to the common band for stations working in accordance with the first radio interface and renders the frequency band available for access by the stations accordance with the second radio interface standard if stations accordance with the first radio interface standard do not request accordance with the first radio interface standard do not request accordance with the first radio interface standard do not request accordance with the first radio interface standard do not request accordance with the first radio interface standard do not request accordance with the first radio interface standard do not request accordance with the first radio interface standard do not request accordance with the first radio interface standard do not request accordance with the first radio interface standard do not request accordance with the first radio interface standard do not request accordance with the first radio interface standard do not request accordance with the first radio interface standard do not request accordance with the first radio interface standard do not request accordance with the first radio interface standard do not request accordance with the first radio interface standard do not request accordance with the first radio interface standard do not request accordance with the first radio interface standard do not request accordance with the first radio interface standard do not request accordance with the first radio interface standard do not request accordance with the first radio interface standard do not request accordance with the first radio interface standard do not request accordance with the first radio interface standard do not request accordance with the first radio interface standard do not request accordance with the first radio interface standard do not request accordance with the first radio interface standard do not request accordance with the first radio interface standard do not request accordance with the first radio interface standard do not request

DEMONSTR



# Claim 6

6. An interface-control protocol method for a radio system which one common frequency band that is provided for alternate use by a second radio interface standard, the radio system comprising:

stations which operate in accordance with a first radio interfa and/or a second radio interface standard, and

a control station which controls the alternate use of the frequency bar

wherein the control station terminates the use of the radio accordance with the second radio interface standard by transaccordance with the first radio interface standard, without taking resulting interference in stations working in accordance with the second interface standard.





# Claim 7

7. An interface-control protocol method for a radio system which one common frequency band that is provided for alternate use by a second radio interface standard, the radio system comprising:

stations which operate in accordance with a first radio interfa and/or a second radio interface standard, and

a control which controls the alternate use of the frequency band

wherein the control station controls the access to the common band by stations working in accordance with the first radio interface and in that duration and type of control of the radio interface in with the second radio interface standard is determined by a further transmitted to the control station.

DEMONSTR



# 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.

