UNITED STATES	PATENT AND TRAD	EMARK OFFICE
BEFORE THE PA	ATENT TRIAL AND A	PPEAL BOARD
SAMSUN	NG ELECTRONICS CO	D., LTD.
	v.	
IRON C	OAK TECHNOLOGIES Patent Owner	, LLC.
_		
_	Patent No. 5,699,275	

DECLARATION OF BENJAMIN B. BEDERSON, PH.D.



# Declaration of Benjamin B. Bederson, Ph.D. U.S. Patent No. 5,699,275

I.	INTRODUCTION					
II.	BAC	ACKGROUND AND QUALIFICATIONS				
III.	SUM	SUMMARY OF OPINIONS				
IV.	PERS	PERSON OF ORDINARY SKILL IN THE ART12				
V. TECHNICAL BACKGROUND		HNICAL BACKGROUND	13			
	A.	Software Patching	13			
	B.	Remote Software Patching	16			
	C.	Network Communication Addressing	18			
VI.	THE	'275 PATENT	20			
VII.	CLAIM CONSTRUCTION		26			
	A.	"mobile unit"	27			
	B.	"operating code"	27			
	C.	"[manager host operable to] initiate transmission [through a wireless communication network of at least one discrete patch message defining at least one patch]"	28			
	D.	"merging the at least one patch with current operating code"	29			
	E.	"[manager host is further operable to] address [the at least one discrete patch message]"	29			
VIII.	OVE	RVIEW OF THE PRIOR ART	31			
	A.	Sugita (Ex. 1005)	31			
	B.	Ballard (Ex. 1006)	34			
	C.	<i>Hapka</i> (Ex. 1008)	37			
	D.	Shimizu (Ex. 1007)	43			
	E.	Parrillo (Ex. 1009)	44			
	F.	Wortham (Ex. 1014)	45			
IX.		PRIOR ART DISCLOSES OR SUGGESTS ALL OF THE TURES OF CLAIM 1 OF THE '275 PATENT	46			
	A.	Sugita Discloses the Features of Claim 1				



1.	Claim I		
	a) "A system for remote patching of operating code located in a mobile unit, comprising:"40		
	b) "a manager host operable to initiate transmission through a wireless communication network of at least one discrete patch message defining at least one patch;"		
	c) "a first mobile unit operable to receive the at least one discrete patch message, the first mobile unit further operable to create patched operating code by merging the at least one patch with current operating code located in the first mobile unit and to switch execution to the patched operating code; and"		
	d) "a second mobile unit operable to receive the at least one discrete patch message, the second mobile unit further operable to create patched operating code by merging the at least one patch with current operating code located in the second mobile unit and to switch execution to the patched operating code; and"		
	e) "wherein the manager host is further operable to address the at least one discrete patch message such that the at least one discrete patch message is transmitted to the first mobile unit but not to the second mobile unit."		
Sugit	ta and Wortham Disclose the Features of Claim 180		
1.	"a mobile unit," "a first mobile unit," and "a second mobile unit" (Claim Elements 1(a), 1(c), 1(d), and 1(e))80		
2.	"a manager host operable to initiate transmission through a wireless communication network of at least one discrete patch message defining at least one patch;" (Claim Element 1(b))		
3.	Remaining Limitations88		



B.

C.	Balle		d <i>Shimizu</i> Disclose the Features of Claim 1	
	1.	Clair	m 1	88
		a)	"A system for remote patching of operating code located in a mobile unit, comprising:"	88
		b)	"a manager host operable to initiate transmission through a wireless communication network of at least one discrete patch message defining at least one patch;"	101
		c)	"a first mobile unit operable to receive the at least one discrete patch message, the first mobile unit further operable to create patched operating code by merging the at least one patch with current operating code located in the first mobile unit and to switch execution to the patched operating code; and"	124
		d)	"a second mobile unit operable to receive the at least one discrete patch message, the second mobile unit further operable to create patched operating code by merging the at least one patch with current operating code located in the second mobile unit and to switch execution to the patched operating code; and"	130
		e)	"wherein the manager host is further operable to address the at least one discrete patch message such that the at least one discrete patch message is transmitted to the first mobile unit but not to the second mobile unit."	131
D.	Нар	<i>ka</i> and	Parrillo Disclose the Features of Claim 1	138
	1.		m 1	
	٠	a)	"A system for remote patching of operating code located in a mobile unit, comprising:"	



	b)	"a manager host operable to initiate transmission through a wireless communication network of at least one discrete patch message defining at least one patch;"
	c)	"a first mobile unit operable to receive the at least one discrete patch message, the first mobile unit further operable to create patched operating code by merging the at least one patch with current operating code located in the first mobile unit and to switch execution to the patched operating code; and"
	d)	"a second mobile unit operable to receive the at least one discrete patch message, the second mobile unit further operable to create patched operating code by merging the at least one patch with current operating code located in the second mobile unit and to switch execution to the patched operating code; and"
	e)	"wherein the manager host is further operable to address the at least one discrete patch message such that the at least one discrete patch message is transmitted to the first mobile unit but not to the second mobile unit."
	E. Hapka, Par	rillo, and Wortham Disclose the Features of Claim 1193
X.	CONCLUSION	198



# DOCKET A L A R M

# 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.

