

US007580005B1

(12) United States Patent

Palin

(54) DISPLAY CHANGE BETWEEN MOBILE TERMINAL DISPLAY AND EXTERNAL DEVICE DISPLAY

- (75) Inventor: Arto Palin, Lempäälä (FI)
- (73) Assignee: Nokia Corporation, Espoo (FI)
- (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.
- (21) Appl. No.: 09/639,196
- (22) Filed: Aug. 15, 2000
- (51) Int. Cl. *G09G 5/00* (2006.01)

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,307,055 A	A	*	4/1994	Baskin et al 345/2.2
5,550,593	A	*	8/1996	Nakabayashi
5,666,159	A	*	9/1997	Parulski et al 348/211.2
5,734,413	A	*	3/1998	Lappington et al 725/141
5,831,664 A	A	*	11/1998	Wharton et al.
5,850,340	A		12/1998	York 364/188
5,880,732	A	*	3/1999	Tryding 345/810
6,002,450 A	A		12/1999	Darbee et al 348/734
6,064,420	A	*	5/2000	Harrison et al 725/136
6,084,584	A	*	7/2000	Nahi et al.
6,097,441 A	A	*	8/2000	Allport 348/552
6,122,526 A	A	*	9/2000	Parulski et al 455/556.1
6,227,043 H	B1	*	5/2001	Schoenbeck et al 73/116
6,287,200 H	B1	*	9/2001	Sharma
6,297,737 1	B1	*	10/2001	Irvin
6,357,042 1	B2	*	3/2002	Srinivasan

(10) Patent No.: US 7,580,005 B1

(45) **Date of Patent:** Aug. 25, 2009

6,453,160 B1*	9/2002	Thomas et al 455/419
6,496,122 B2*	12/2002	Sampsell 340/825.69
6,580,422 B1*	6/2003	Reilly 345/169
6.611.358 B1*	8/2003	Narayanaswamy 358/442

(Continued)

FOREIGN PATENT DOCUMENTS

DE 197 19 908 A1 11/1998

(Continued)

OTHER PUBLICATIONS

EPC Article 96(2) Communication (dated Nov. 5, 2002) in EPO Application No. 01 660 146.0-1525.

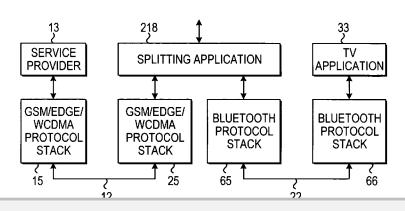
Primary Examiner—Hau H Nguyen

(74) Attorney, Agent, or Firm—Locke Lord Bissell & Liddell LLP

(57) **ABSTRACT**

A system is provided for transmitting an image from a first display device having certain display capabilities to a second display device having different display capabilities. The image may be received by the first display device as data in a packet or plurality of packets. The packets are split by a splitting application into data to be displayed on the first display device, if any, and data to be displayed on the second display device. The data to be displayed on the second display device is reformatted at the first display device to be transmitted over a wireless, short range communication link, such as a Bluetooth link. The system thereby enables the display on the second display device of an image that either could not be displayed on the first display device or could not be displayed with the same capabilities as on the first display device.

16 Claims, 9 Drawing Sheets



Find authenticated court documents without watermarks at docketalarm.com.

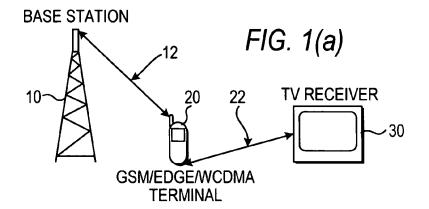
U.S. PATENT DOCUMENTS	GB	2 348 083 A	9/2000			
6,765,557 B1* 7/2004 Segal et al	WO	WO 98/16062	4/1998			
6,792,148 B1 * 9/2004 Wergeland et al	WO	WO 99/34564	7/1999			
6,795,715 B1 * $9/2004$ Kubo et al	WO	WO 99/34599	7/1999			
6,968,365 B2* 11/2005 Hollstrom et al	WO	WO 00/18025	3/2000			
FOREIGN PATENT DOCUMENTS						

EP

0 426 966 A2 9/1990

* cited by examiner

Δ



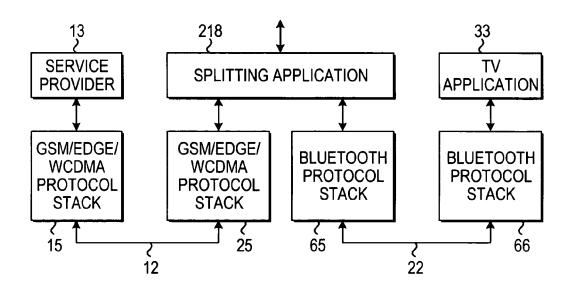


FIG. 1(b)

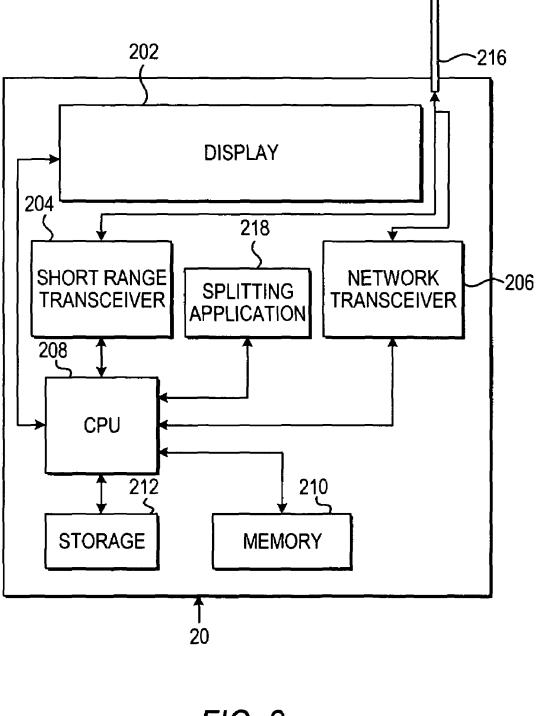


FIG. 2

Δ

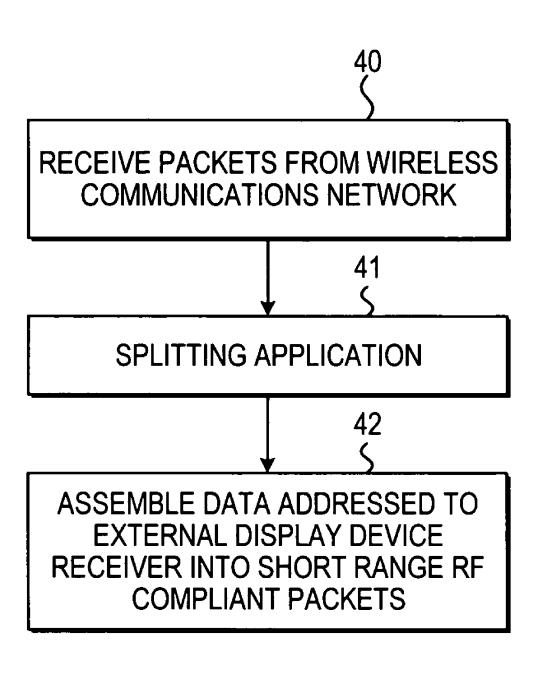


FIG. 3

Find authenticated court documents without watermarks at <u>docketalarm.com</u>.

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.