

Exhibit A



US008540159B2

(12) **United States Patent**
Lee et al.

(10) **Patent No.:** **US 8,540,159 B2**
(45) **Date of Patent:** **Sep. 24, 2013**

(54) **METHOD FOR PROVIDING MOBILE SERVICE USING CODE-PATTERN**

235/235/462.09, 462.1, 462.11, 462.24, 462.41, 235/462.43, 462.45

See application file for complete search history.

(75) Inventors: **Jae-Jun Lee**, Seoul (KR); **Young-Jun Shin**, Seoul (KR)

(56) **References Cited**

(73) Assignee: **KT Corporation**, Gyeonggi-do (KR)

U.S. PATENT DOCUMENTS

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

6,199,048 B1 3/2001 Hudetz et al.
6,456,207 B1 9/2002 Yen

(Continued)

(21) Appl. No.: **13/560,911**

FOREIGN PATENT DOCUMENTS

(22) Filed: **Jul. 27, 2012**

CN 1270364 A 10/2000
CN 1313554 A 9/2001

(Continued)

(65) **Prior Publication Data**

US 2012/0286030 A1 Nov. 15, 2012

OTHER PUBLICATIONS

Korean Intellectual Property Office, International Search Report for International Application No. PCT/KR2004/000481, Jun. 11, 2004.

(Continued)

Related U.S. Application Data

(60) Continuation of application No. 12/140,930, filed on Jun. 17, 2008, now Pat. No. 8,245,938, which is a division of application No. 11/221,301, filed on Sep. 6, 2005, now Pat. No. 7,419,097, which is a continuation of application No. PCT/KR2004/000481, filed on Mar. 8, 2004.

Primary Examiner — Kristy A Haupt

(74) *Attorney, Agent, or Firm* — IP Legal Services, LLC

(30) **Foreign Application Priority Data**

Mar. 7, 2003 (KR) 10-2003-0014419
Mar. 7, 2003 (KR) 10-2003-0014420
Mar. 8, 2003 (KR) 10-2003-0014598
Mar. 20, 2003 (KR) 10-2003-0017468
Mar. 20, 2003 (KR) 10-2003-0017469

(57) **ABSTRACT**

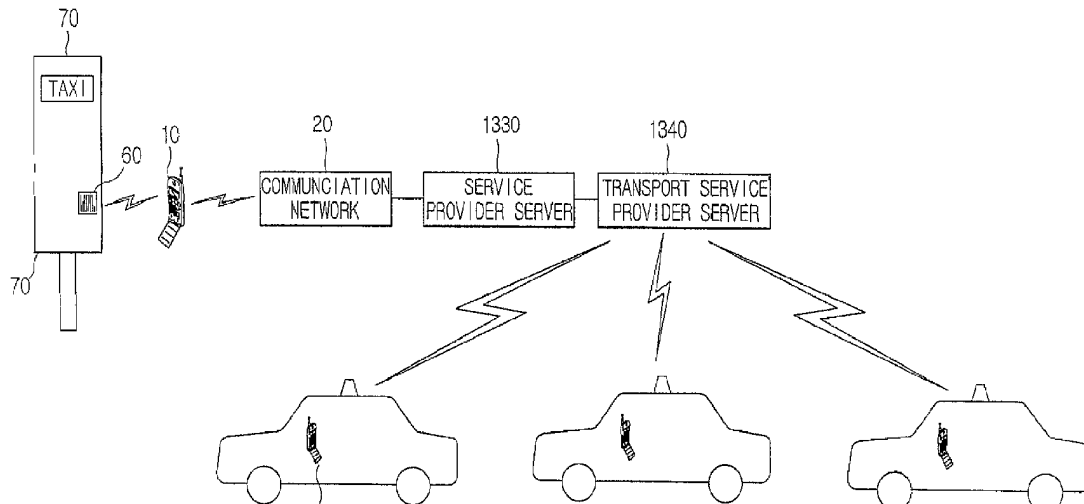
A method and apparatus for providing a mobile service with the use of a code pattern is disclosed. In one embodiment, the method comprising: taking a photograph of a code pattern image, decoding the photographed code pattern image so as to obtain code information, extracting uniform resource locator (URL) information corresponding to the code information, transmitting a content information request message to a service provider server corresponding to the URL information, and receiving content information corresponding to the URL information from the service provider server. According to embodiments of the present invention, it is possible to provide various and convenient mobile services to mobile terminal users using a mobile terminal, having a camera, and a code pattern containing the URL information.

(51) **Int. Cl.**
G06K 7/10 (2006.01)

(52) **U.S. Cl.**
USPC 235/462.45; 235/462.11; 379/910

(58) **Field of Classification Search**
USPC 235/454, 462.01, 462.05, 462.08,

17 Claims, 34 Drawing Sheets



US 8,540,159 B2

Page 2

(56)

References Cited

U.S. PATENT DOCUMENTS			
6,654,768	B2	11/2003	Celik
2002/0026500	A1	2/2002	Kanefsky et al.
2002/0035503	A1	3/2002	Matsumoto
2002/0090132	A1*	7/2002	Bonyk et al. 382/154
2002/0126780	A1*	9/2002	Oshima et al. 375/347
2002/0195495	A1	12/2002	Melick et al.
2003/0047613	A1	3/2003	Funamoto et al.
2003/0120555	A1	6/2003	Kitagawa
2003/0149557	A1	8/2003	Cox et al.
2004/0019792	A1	1/2004	Funamoto et al.
2005/0227620	A1	10/2005	Morimoto
2006/0097041	A1	5/2006	Funamoto et al.
FOREIGN PATENT DOCUMENTS			
EP	1033656	A1	9/2000
JP	10-105889	A	4/1998
JP	2000-057079	A	2/2000
JP	2001-319186	A	11/2001

JP	2002-077994	A	3/2002
JP	2002-111909	A	4/2002
JP	2002-181581	A	6/2002
KR	10-2001-0081414	A	8/2001
KR	10-2001-0094453	A	11/2001
KR	10-2001-0103905	A	11/2001
KR	10-2001-0106280	A	11/2001
KR	10-2001-0112662	A	12/2001
KR	10-2002-0064097	A	8/2002
KR	10-2002-0070669	A	9/2002
KR	10-2002-0094437	A	12/2002
KR	10-0414523	B1	1/2004
WO	02/33518	A2	4/2002

OTHER PUBLICATIONS

Korean Intellectual Property Office, Written Opinion of the International Searching Authority for International Application No. PCT/KR2004/000481, Jun. 11, 2004.

* cited by examiner

FIG. 1

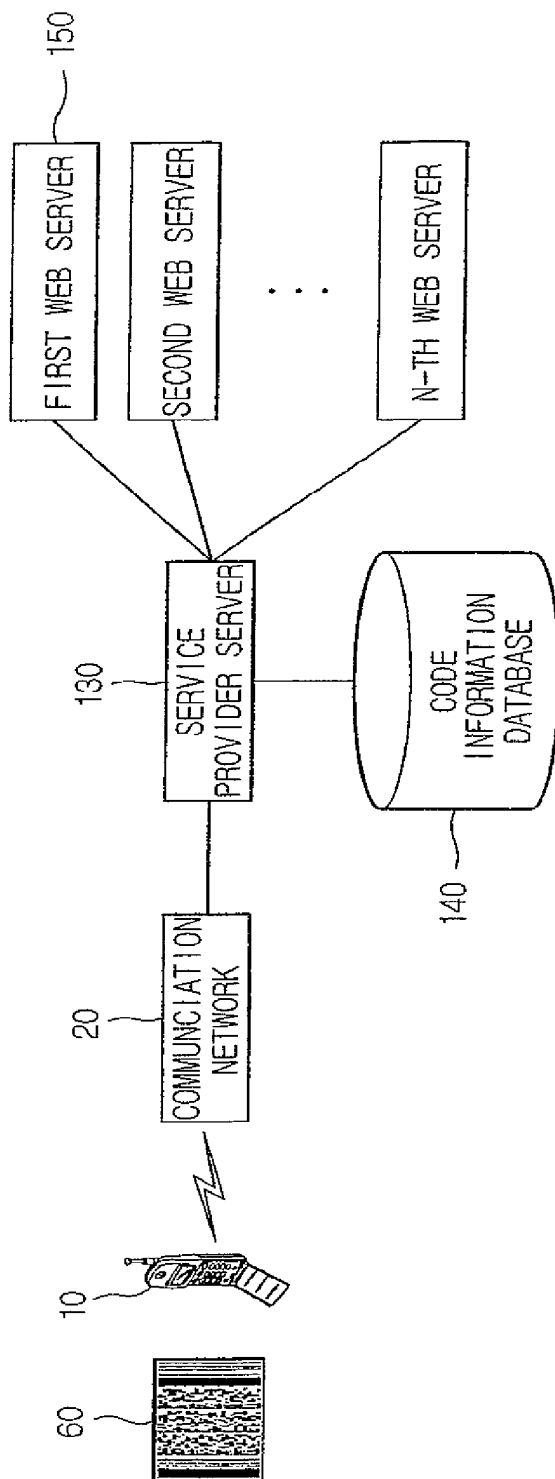
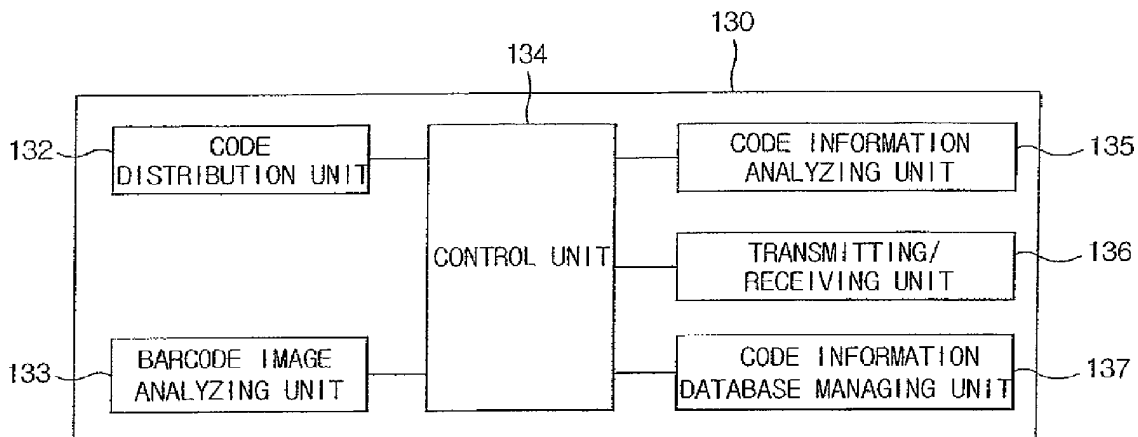


FIG. 2



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.