

Exhibit A



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

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(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.

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

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

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(Continued)

(65) **Prior Publication Data**

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

Related U.S. Application Data

(Continued)

(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.

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(30) **Foreign Application Priority Data**

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Mar. 20, 2003 (KR) 10-2003-0017468
Mar. 20, 2003 (KR) 10-2003-0017469

(57)

ABSTRACT

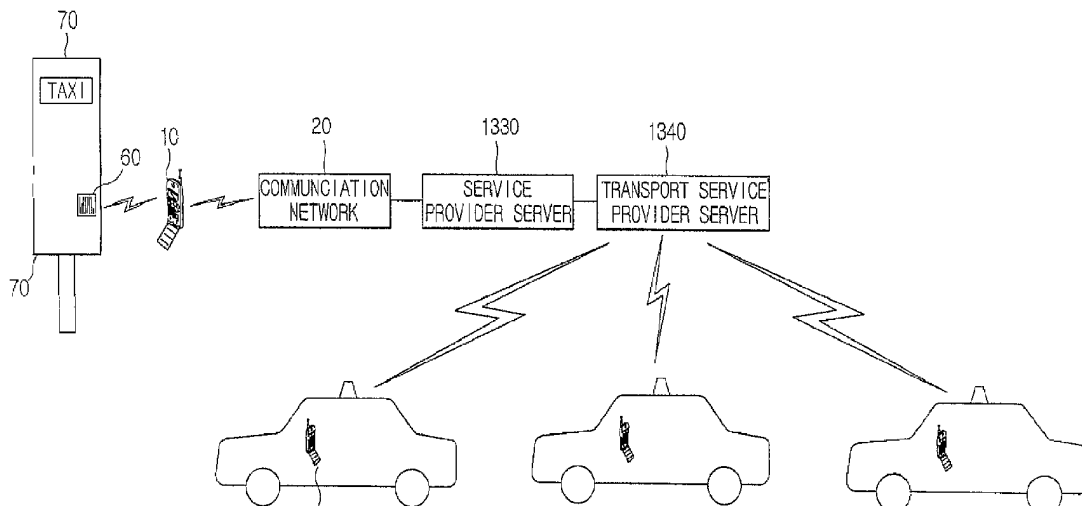
A method and apparatus for providing a mobile service with the use of a code pattern is disclosed. In one embodiment, the method comprising: taking a photograph of a code pattern image, decoding the photographed code pattern image so as to obtain code information, extracting uniform resource locator (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



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FIG. 1

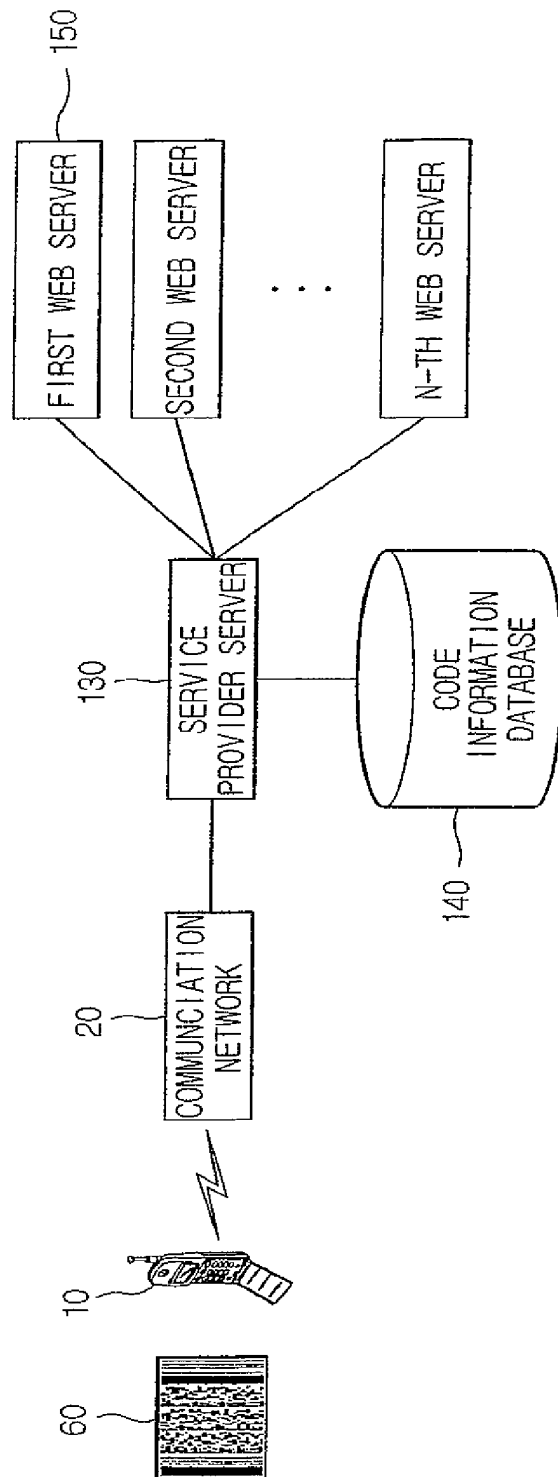
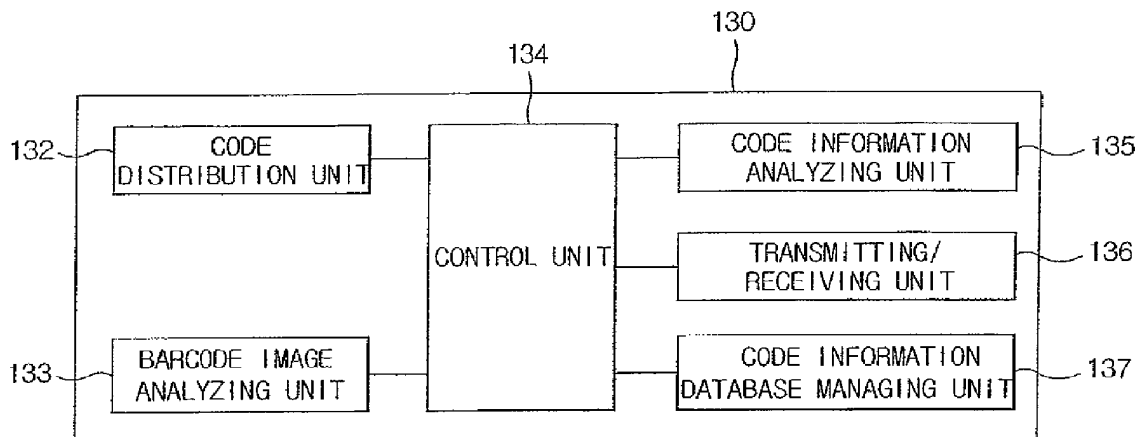


FIG. 2



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