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

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- (54) **METHOD AND SYSTEM FOR PROVIDING INFORMATION FOR A MOBILE TERMINAL AND A MOBILE TERMINAL**

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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 491 days.

**FOREIGN PATENT DOCUMENTS**

- (21) Appl. No.: **10/164,619**
- (22) Filed: **Jun. 10, 2002**
- (65) **Prior Publication Data**

JP	514265	1/1993
JP	5102906	4/1993
JP	6290396	10/1994
JP	6294663	10/1994
JP	7225897	8/1995
JP	7250381	9/1995

US 2002/0156578 A1 Oct. 24, 2002

**Related U.S. Application Data**

- (63) Continuation of application No. 09/558,100, filed on Apr. 25, 2000, now Pat. No. 6,434,479, which is a continuation of application No. 08/739,275, filed on Oct. 29, 1996, now Pat. No. 6,073,075.

**Foreign Application Priority Data**

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- (51) **Int. Cl.<sup>7</sup>** ..... **G06F 165/00**
- (52) **U.S. Cl.** ..... **701/203; 701/208; 701/211; 340/989**
- (58) **Field of Search** ..... **701/200, 202, 701/201, 203, 207, 208, 209, 210, 211, 213; 340/990, 995, 998; 73/178 R**

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**(57) ABSTRACT**

A mobile terminal, and an information providing method and system which immediately provides information, which the user of the mobile terminal desires, for the mobile terminal. Area and related service information are stored in corresponding relationship in a database. An information server which includes means for calculating the area of the destination of the mobile terminal loads information on the destination area from the database to the mobile terminal which moves toward the destination area, using radio communication means before the mobile terminal arrives at the destination area.

**5 Claims, 19 Drawing Sheets**

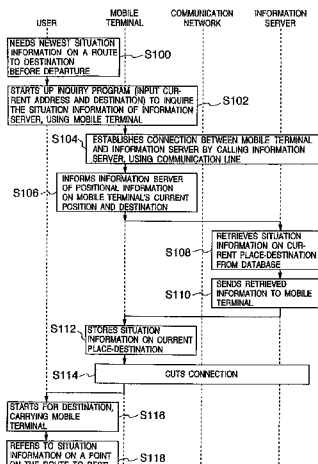


FIG. 1

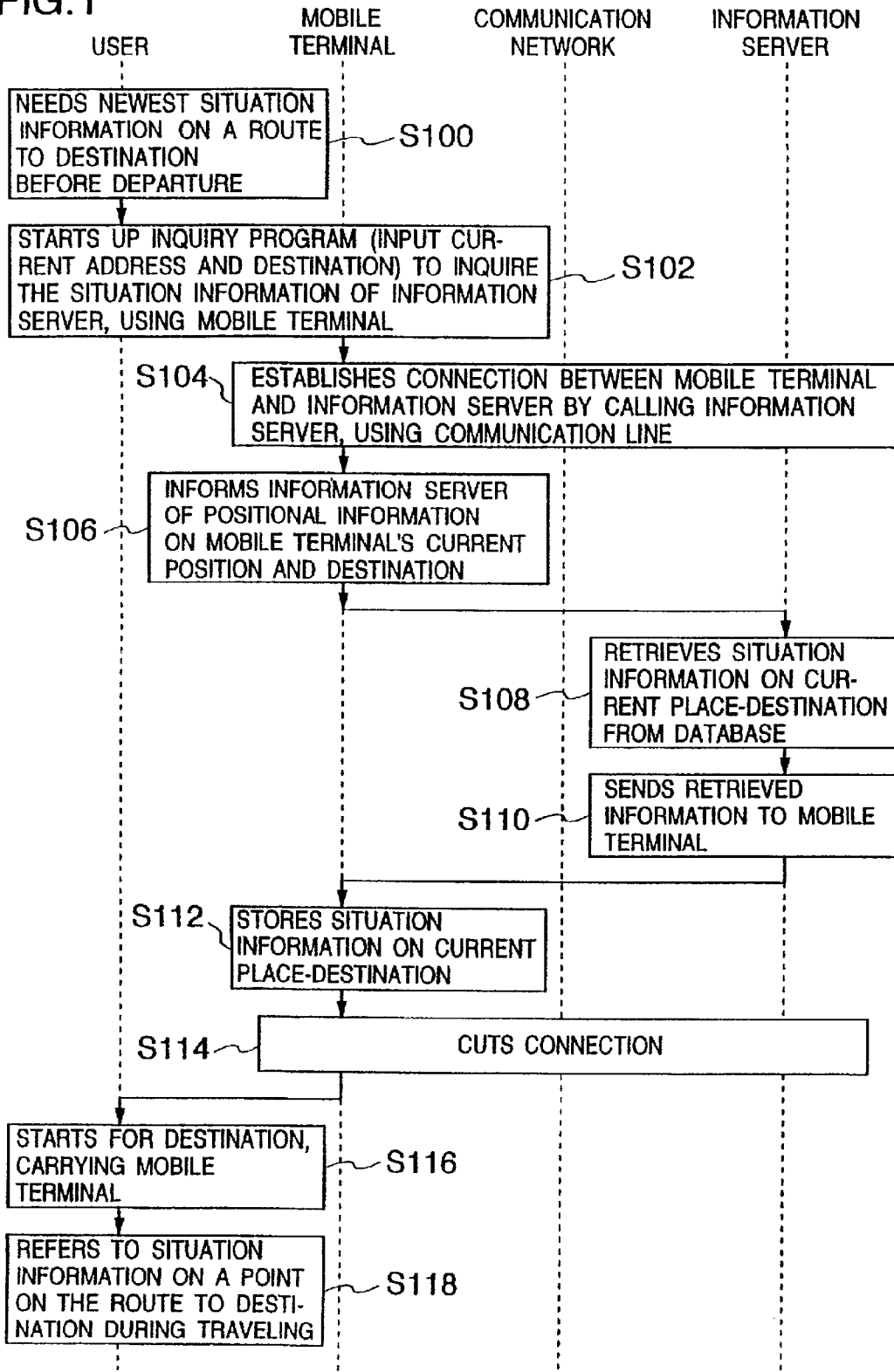
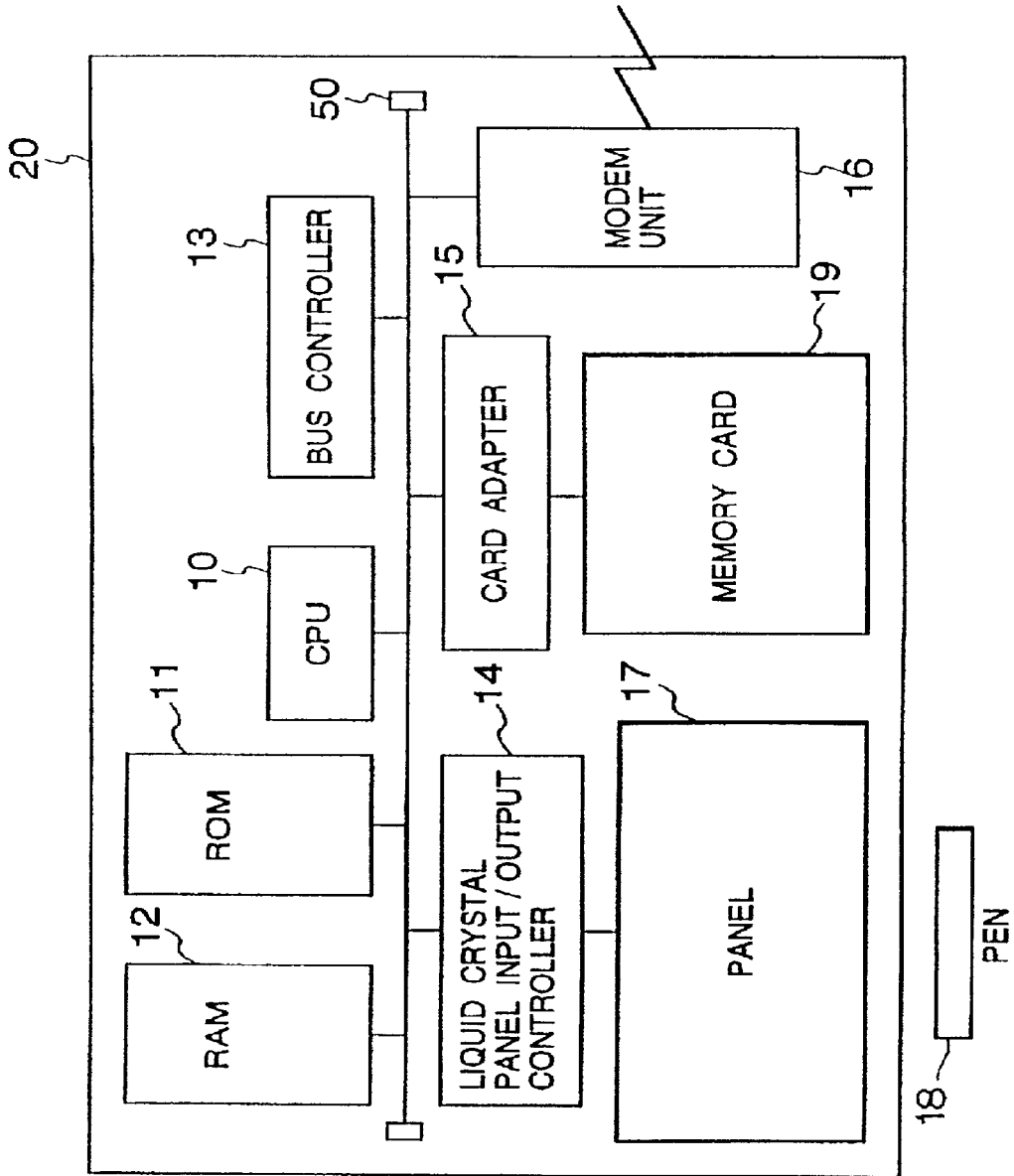


FIG. 2



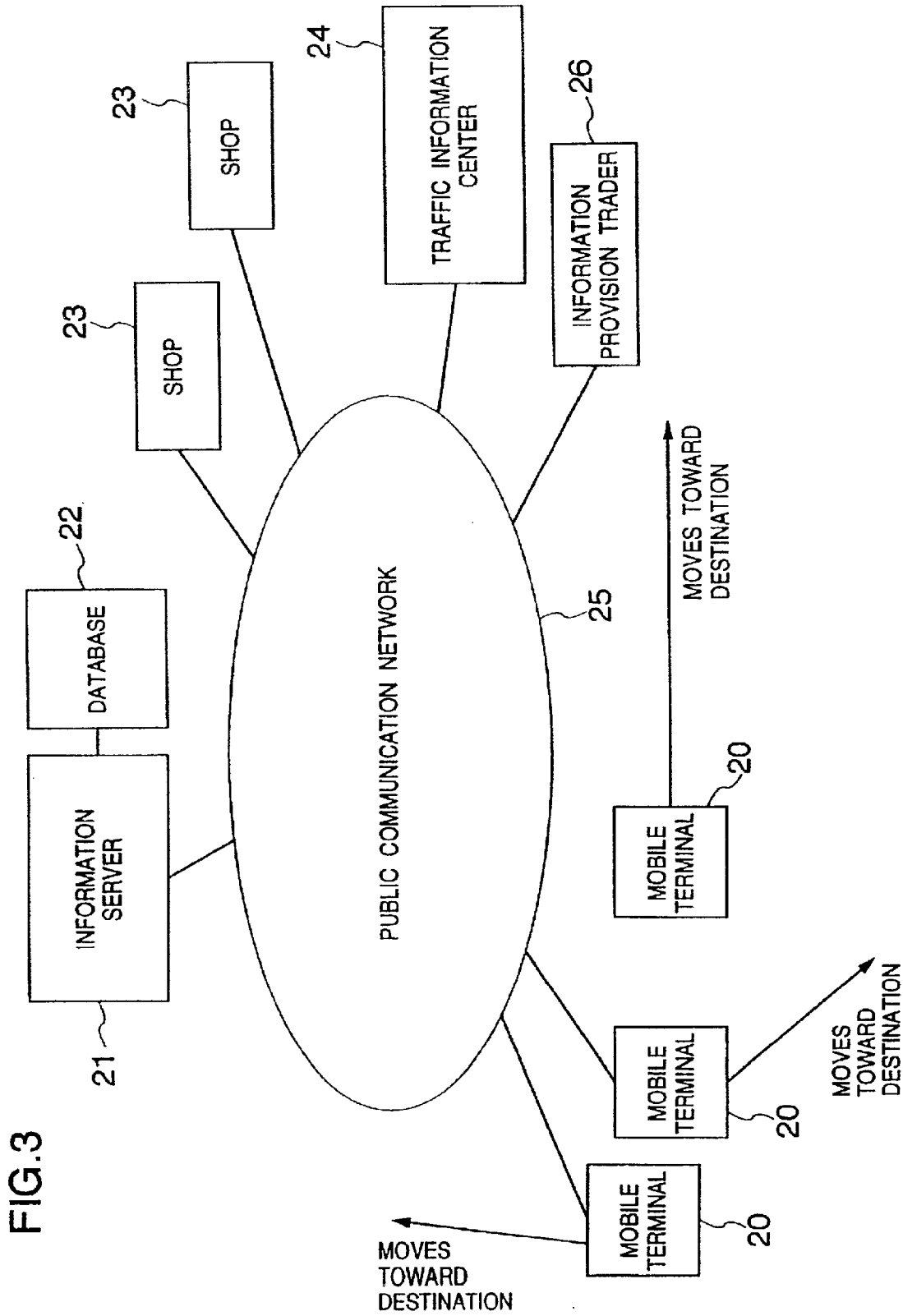
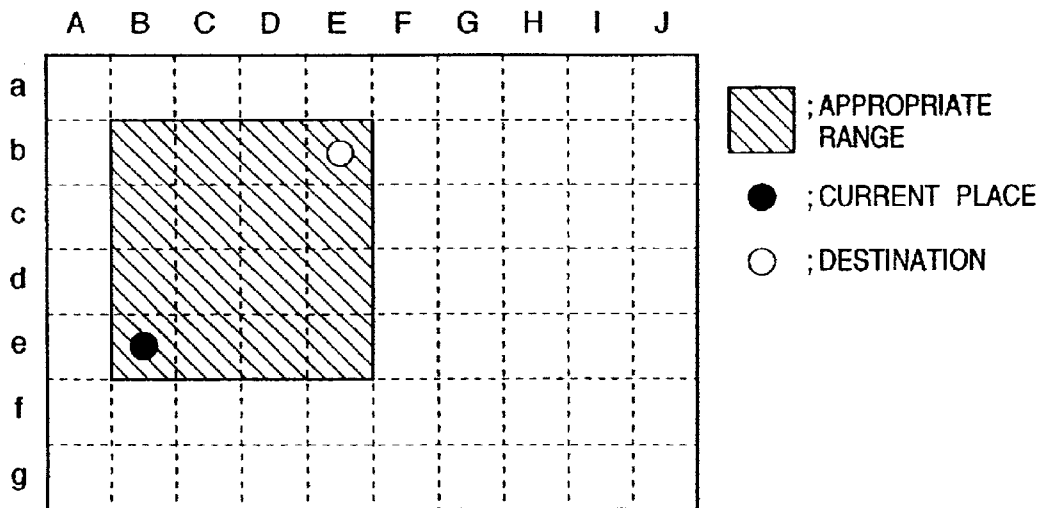


FIG.4

DATA 1	ADDRESS	RETRIEVAL KEY	SERVICE CLASSIFICATION	SERVICE INFORMATION
DATA 2	ADDRESS	RETRIEVAL KEY	SERVICE CLASSIFICATION	SERVICE INFORMATION
DATA 3	ADDRESS	RETRIEVAL KEY	SERVICE CLASSIFICATION	SERVICE INFORMATION
DATA 4	ADDRESS	RETRIEVAL KEY	SERVICE CLASSIFICATION	SERVICE INFORMATION
DATA 5	ADDRESS	RETRIEVAL KEY	SERVICE CLASSIFICATION	SERVICE INFORMATION
	⋮	⋮	⋮	⋮
DATA N	ADDRESS	RETRIEVAL KEY	SERVICE CLASSIFICATION	SERVICE INFORMATION

FIG.5



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