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(54) **SECURITY METHOD AND SYSTEM WITH CROSS-CHECKING BASED ON GEOGRAPHIC LOCATION DATA**

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(57) **ABSTRACT**

A security system with cross-checking for authenticating users on data communications networks comprises means for receiving from a service provider identification data of a user and of a point of access to a service; means for identifying the geographic location of the access point and a of mobile telephone number associated with the user; means for sending the mobile telephone number to a mobile telephone carrier; means for receiving from the telephone carrier data that identify the geographic location of a mobile telephone that corresponds to the sent mobile telephone number; computing means for generating a result of a comparison between the geographic location of the service access point and the geographic location of the mobile telephone and means for sending the result or data as a function of the result to the service provider or to the mobile telephone number.
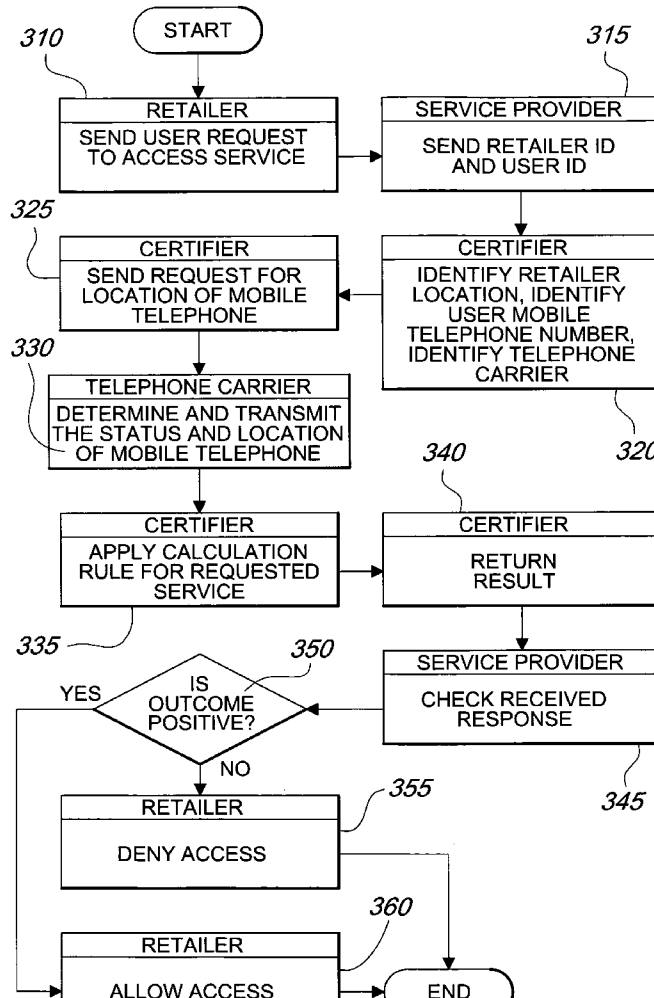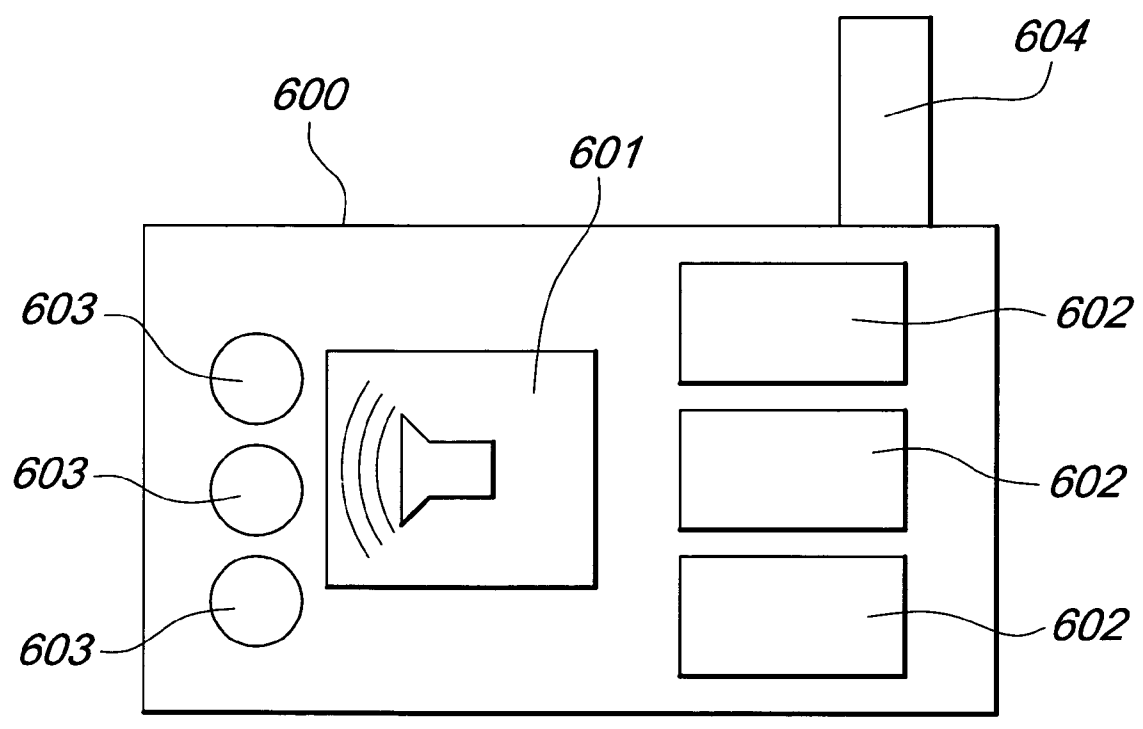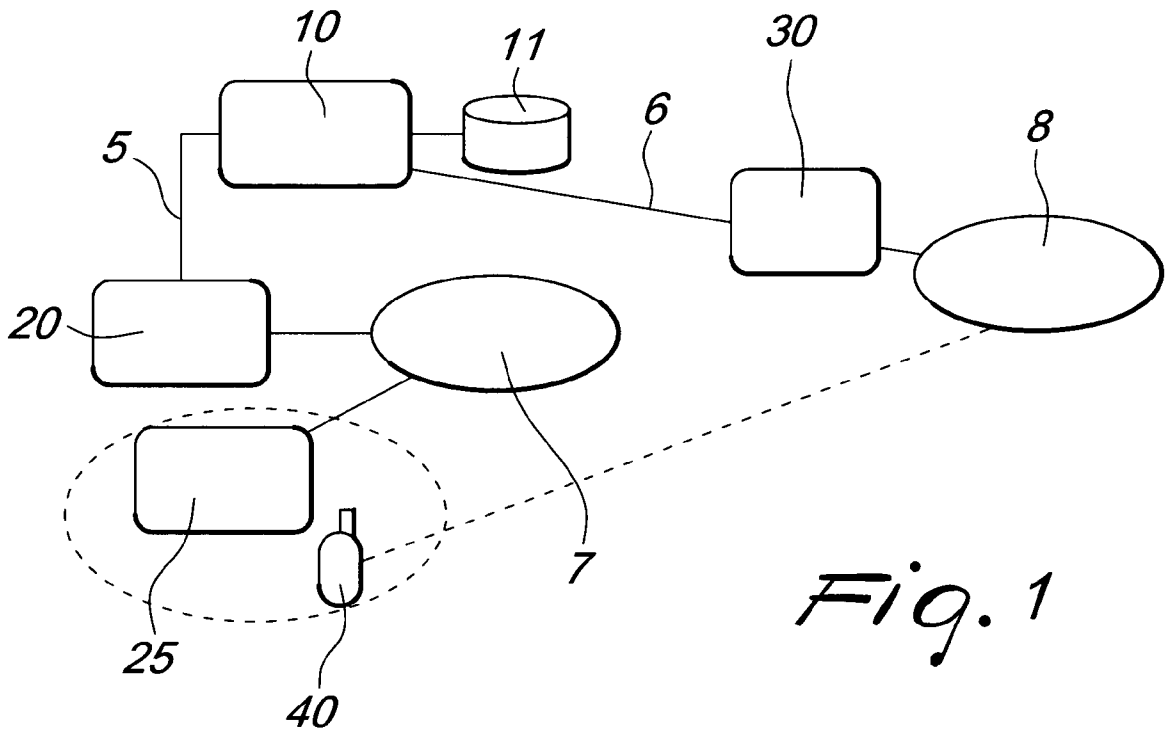
Fig.1

Fig.6

Fig. 2

START

310

315

RETAILER

SEND USER REQUEST
TO ACCESS SERVICE

SERVICE PROVIDER

SEND RETAILER ID
AND USER ID

325

CERTIFIER

SEND REQUEST FOR
LOCATION OF MOBILE
TELEPHONE

CERTIFIER

IDENTIFY RETAILER
LOCATION, IDENTIFY
USER MOBILE
TELEPHONE NUMBER,
IDENTIFY TELEPHONE
CARRIER

330

TELEPHONE CARRIER

DETERMINE AND TRANSMIT
THE STATUS AND LOCATION
OF MOBILE TELEPHONE

340

320

CERTIFIER

APPLY CALCULATION
RULE FOR REQUESTED
SERVICE

CERTIFIER

RETURN
RESULT

335

350

YES

IS
OUTCOME
POSITIVE?

SERVICE PROVIDER

CHECK RECEIVED
RESPONSE

NO

355

345

RETAILER

DENY ACCESS

360

Fig.3

RETAILER

ALLOW ACCESS

END
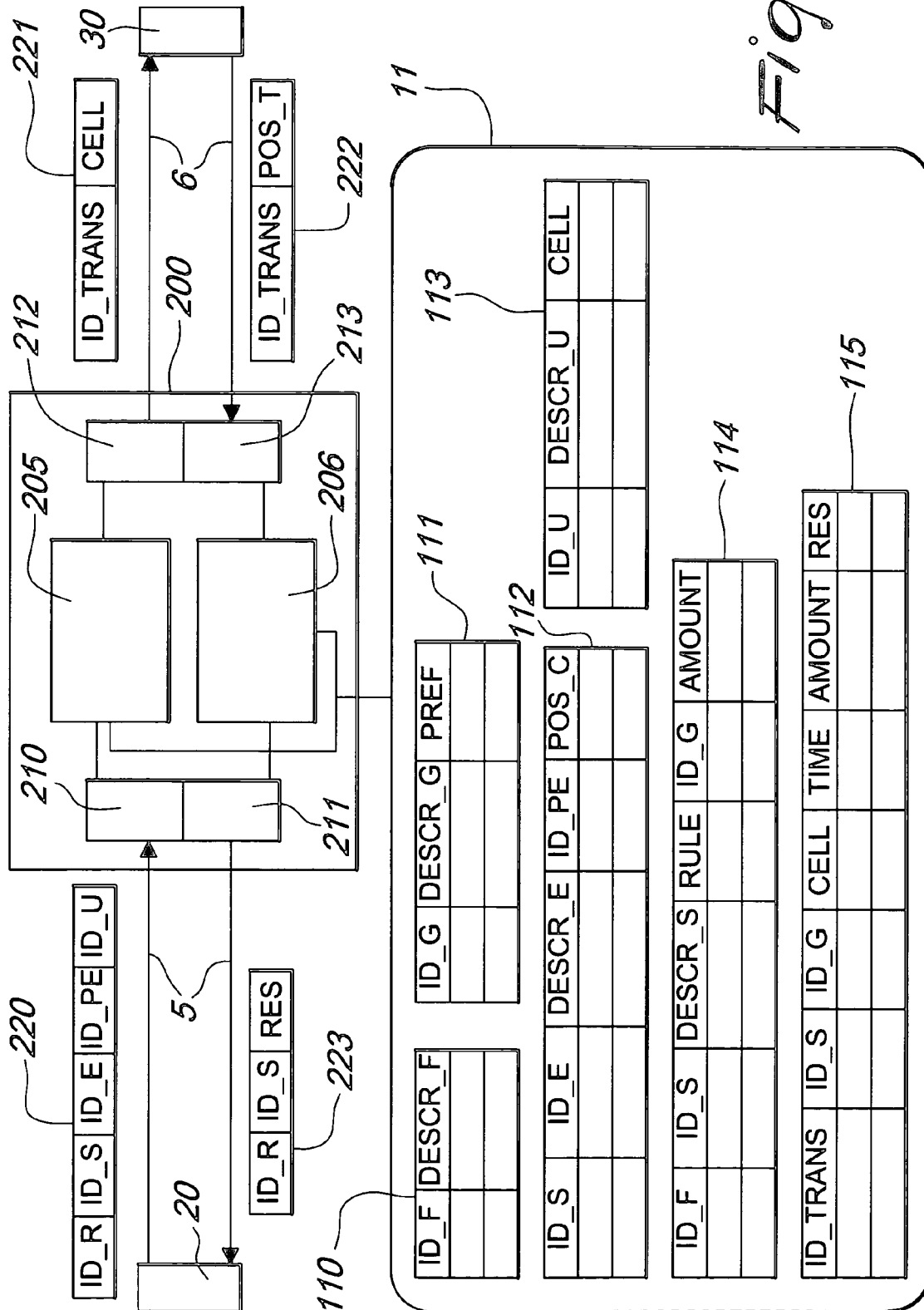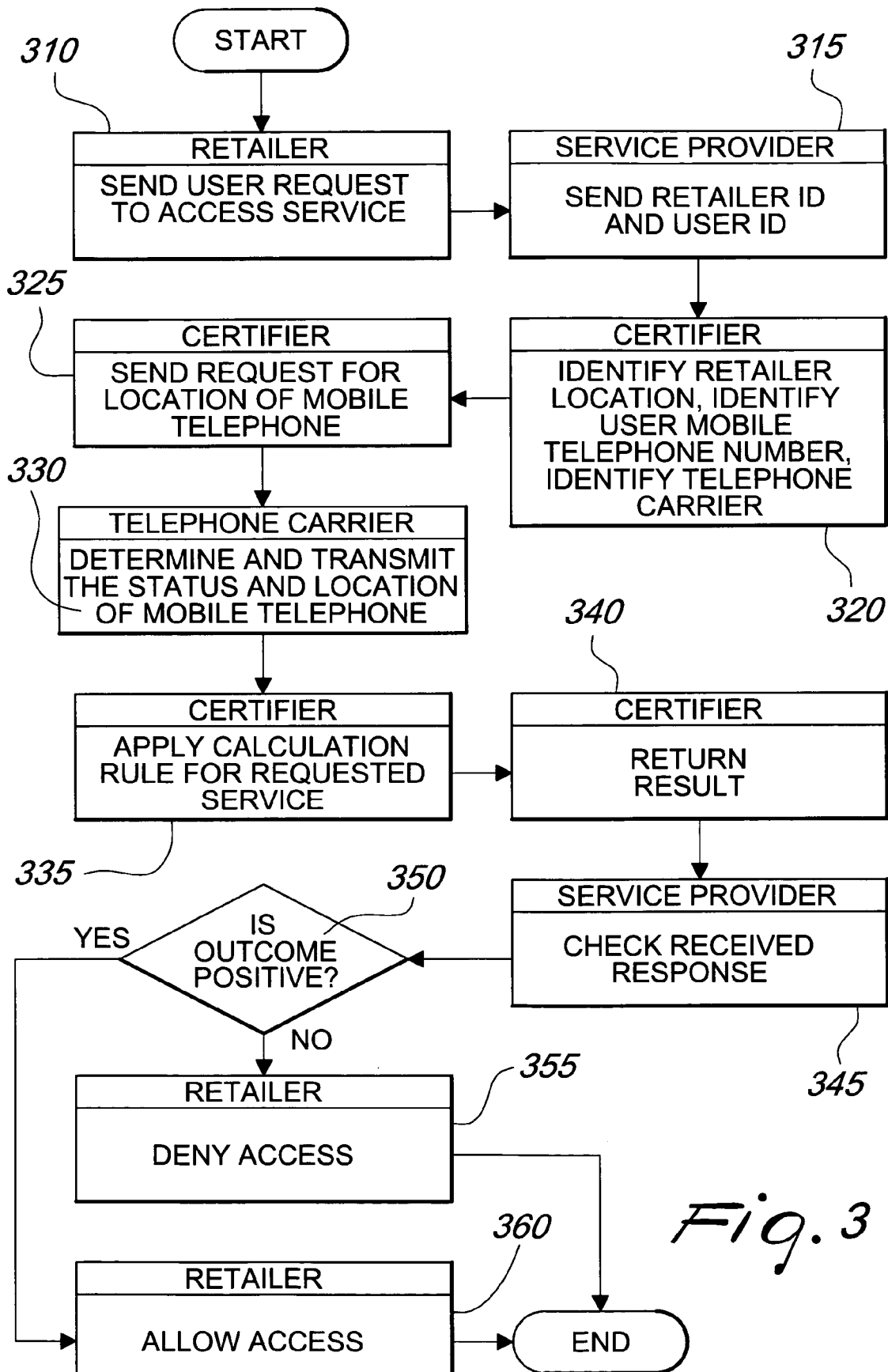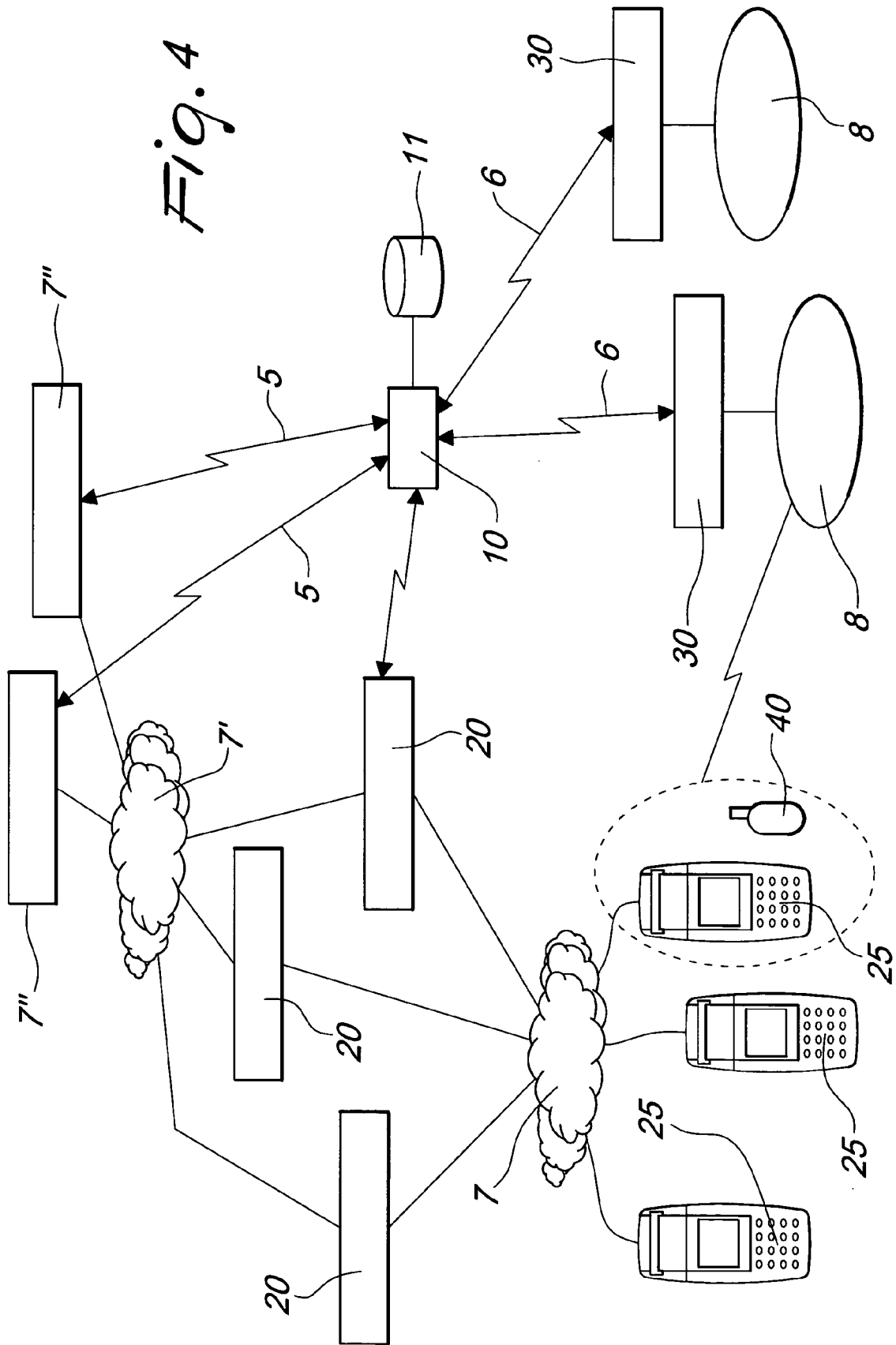
Fig. 4

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