

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

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(54) **REMOTE ACCESS SERVER FOR MULTIPLE SERVICE CLASSES IN IP NETWORKS**

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**Related U.S. Application Data**

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(51) **Int. Cl.**<sup>7</sup> ..... **H04J 3/14**; H04L 12/56

(52) **U.S. Cl.** ..... **370/230**; 370/235; 370/401; 370/420

(58) **Field of Search** ..... 370/230, 252, 370/352, 389, 391, 395.21, 395.42, 401, 420, 421, 444, 236, 230.1, 231, 235

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(57) **ABSTRACT**

A method and system for assigning priority or classes of service of messages delivered in a packet-based network. The method and system allows for implementation of differentiated classes of service according to the requirements of the network application or user.

**19 Claims, 6 Drawing Sheets**

**Router Stamping**

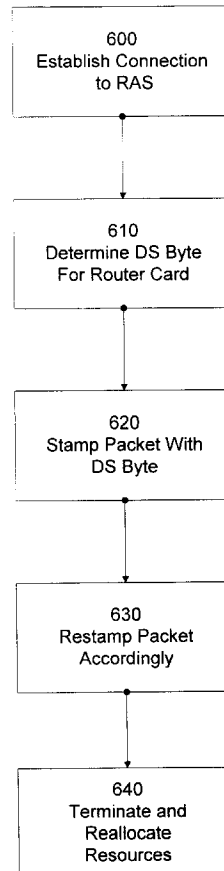


FIG. 1

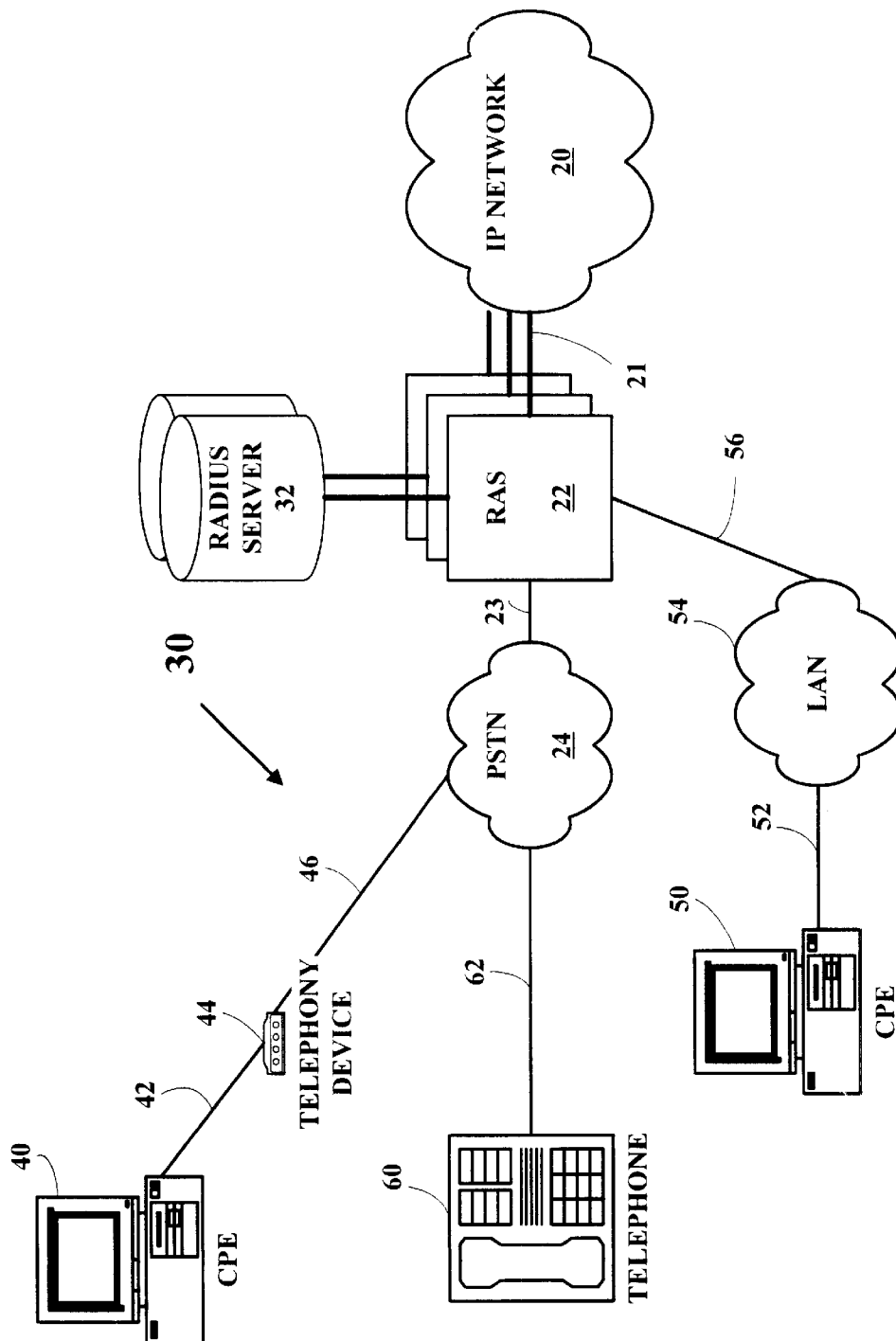
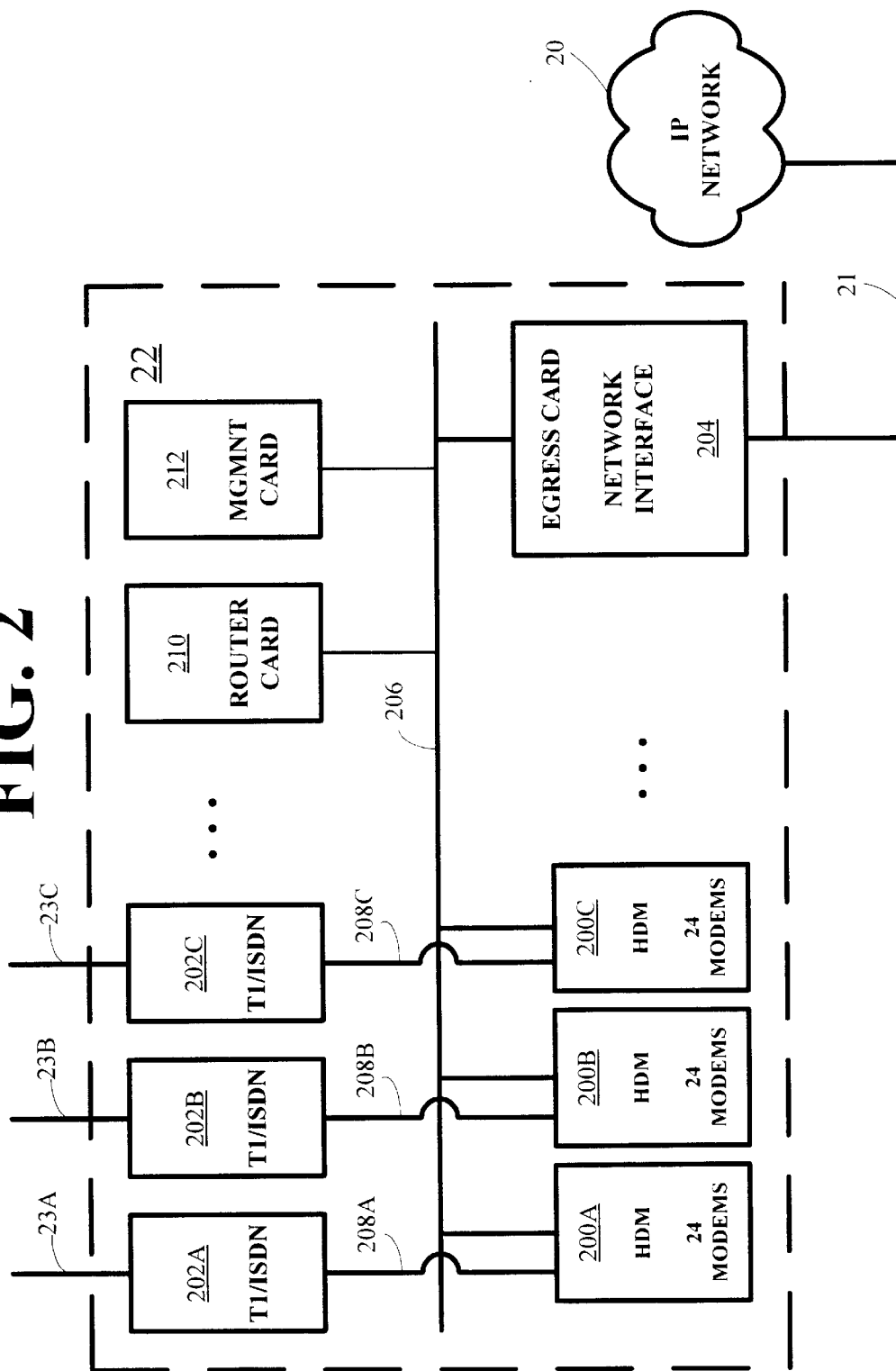


FIG. 2



VER	IHL	TOS	TOTAL LENGTH
IDENTIFICATION		FRAGMENT OFFSET	
TIME-TO-LIVE	PROTOCOL	HEADER CHECKSUM	
SOURCE ADDRESS			
DESTINATION ADDRESS			
OPTIONS			

IP HEADER

FIG. 3

**FIG. 4**

**400**

**USER PROFILE DATABASE**

410	412	414	416	418	420	422	424
USER NAME	USER ID	DEVICE1	DEFAULT	SECONDARY	ALTERNATE 1	ALTERNAT 2	ALTERNATE 3
GUIDO SCHUSTER	schuster	PC	DS BYTE	DS BYTE 0	DS BYTE 1	DS BYTE 2	DS BYTE 3
IKHLAQ SIDHU	sidhu	PC	DS BYTE	DS BYTE 0	DS BYTE 1	DS BYTE 2	DS BYTE 3
JACEK GRABIEC	grabiec	PC	DS BYTE	DS BYTE 0	DS BYTE 1	DS BYTE 2	DS BYTE 3
MICHAEL BORELLA	borella	PC	DS BYTE	DS BYTE 0	DS BYTE 1	DS BYTE 2	DS BYTE 3
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