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**Schwab et al.**

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(54) **CALL PROGRAMMING APPARATUS AND METHOD**

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(52) **U.S. Cl.** ..... **379/211.02**; 379/221.03; 379/913; 379/216.01; 379/211.04; 455/461

(58) **Field of Search** ..... 379/201, 207, 379/210, 211, 216, 219, 220, 229, 230, 913, 201.01, 201.02, 207.02, 211.01, 211.02, 211.03, 211.04, 216.01, 220.01; 455/461

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,313,035 A	1/1982	Jordan et al. ....	379/207
5,060,255 A	10/1991	Brown .....	379/211
5,243,645 A	9/1993	Bissell et al. ....	379/211
5,249,219 A	9/1993	Morganstein et al. ...	379/197 X
5,369,686 A	11/1994	Dutra et al. ....	379/93.24
5,452,347 A	9/1995	Iglehart et al. ....	379/199
5,475,748 A *	12/1995	Jones .....	379/211
5,487,111 A	1/1996	Slusky .....	379/211
5,506,888 A	4/1996	Hayes et al. ....	379/210 X
5,548,636 A	8/1996	Banister et al. ....	379/201
5,555,292 A	9/1996	Eckhart .....	379/211 X
5,579,375 A	11/1996	Ginter .....	379/211 X
5,586,169 A	12/1996	Pinard et al. ....	379/201 X
5,588,037 A	12/1996	Fuller et al. ....	379/201 X
5,592,541 A	1/1997	Fleischer, III et al. ....	379/211
5,598,464 A	1/1997	Hess et al. ....	379/213

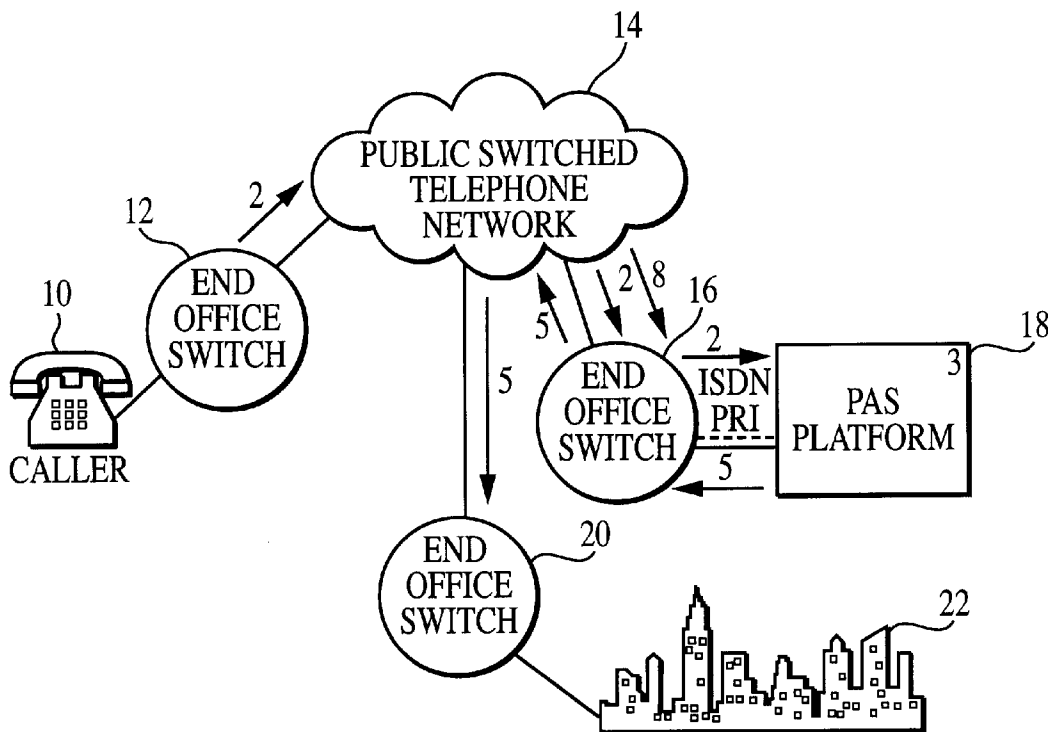
\* cited by examiner

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(57) **ABSTRACT**

A method of routing incoming telephone calls and programming routing options and apparatus that allows incoming calls to be routed according to various criteria programmed by a subscriber.

**15 Claims, 58 Drawing Sheets**



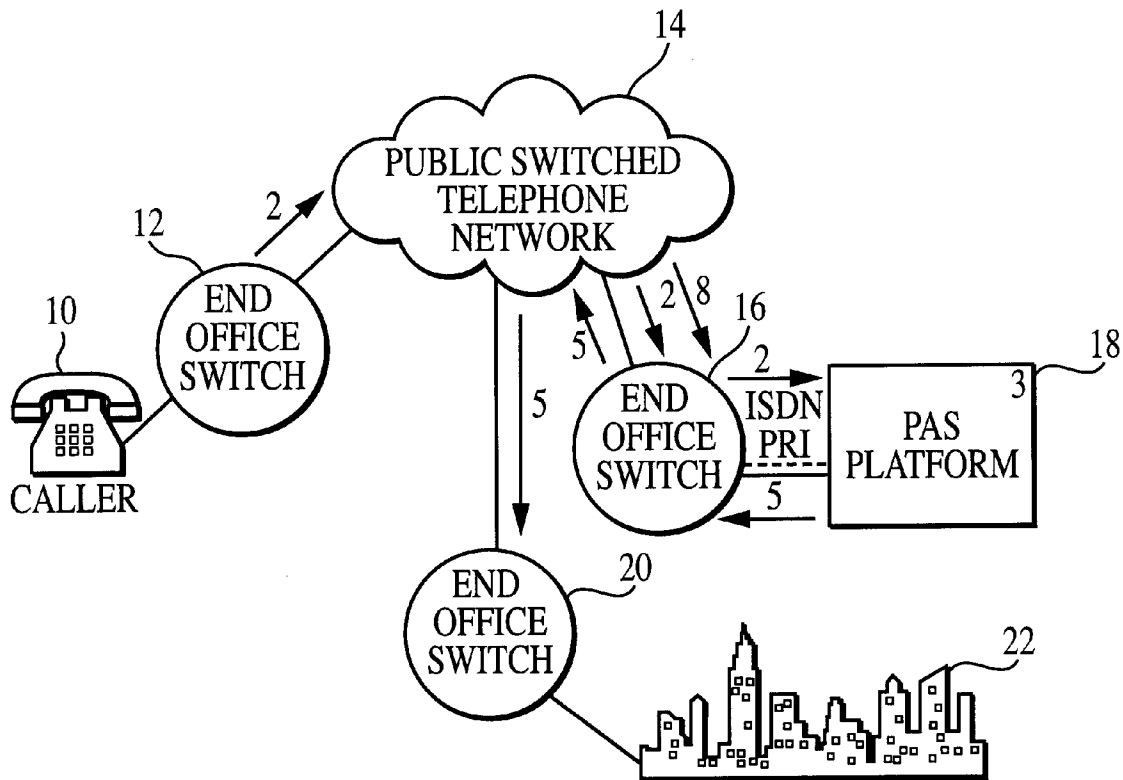


FIG. 1

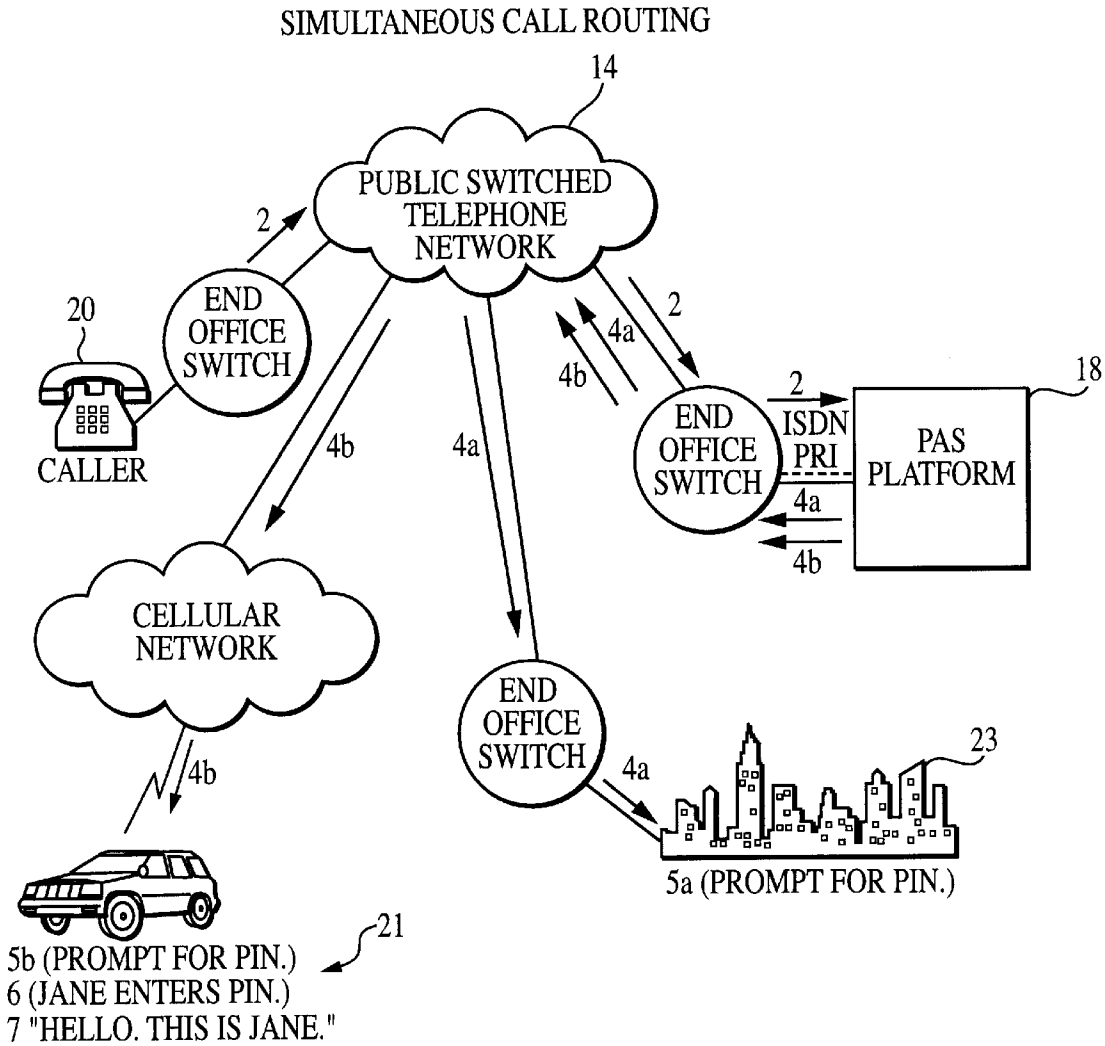


FIG. 2

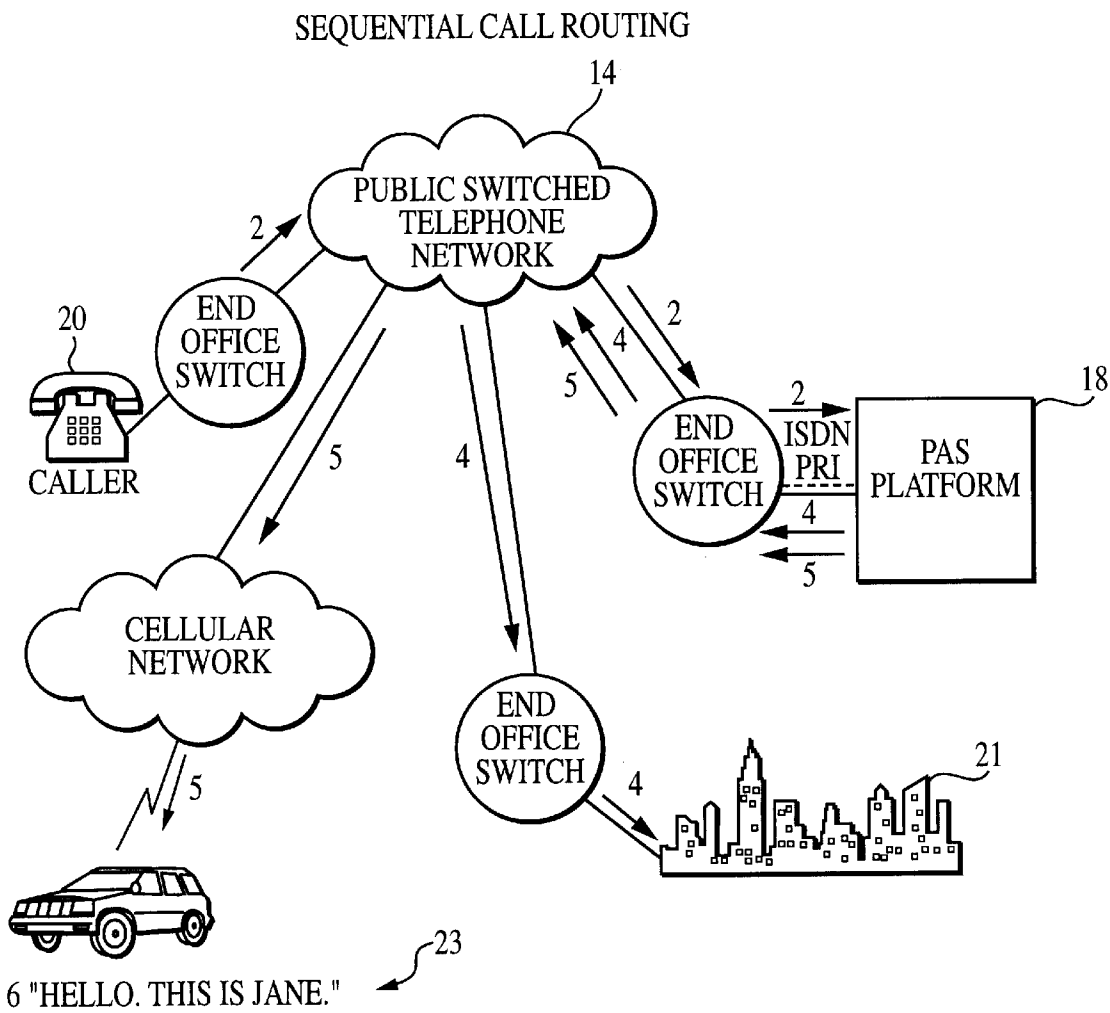


FIG. 3

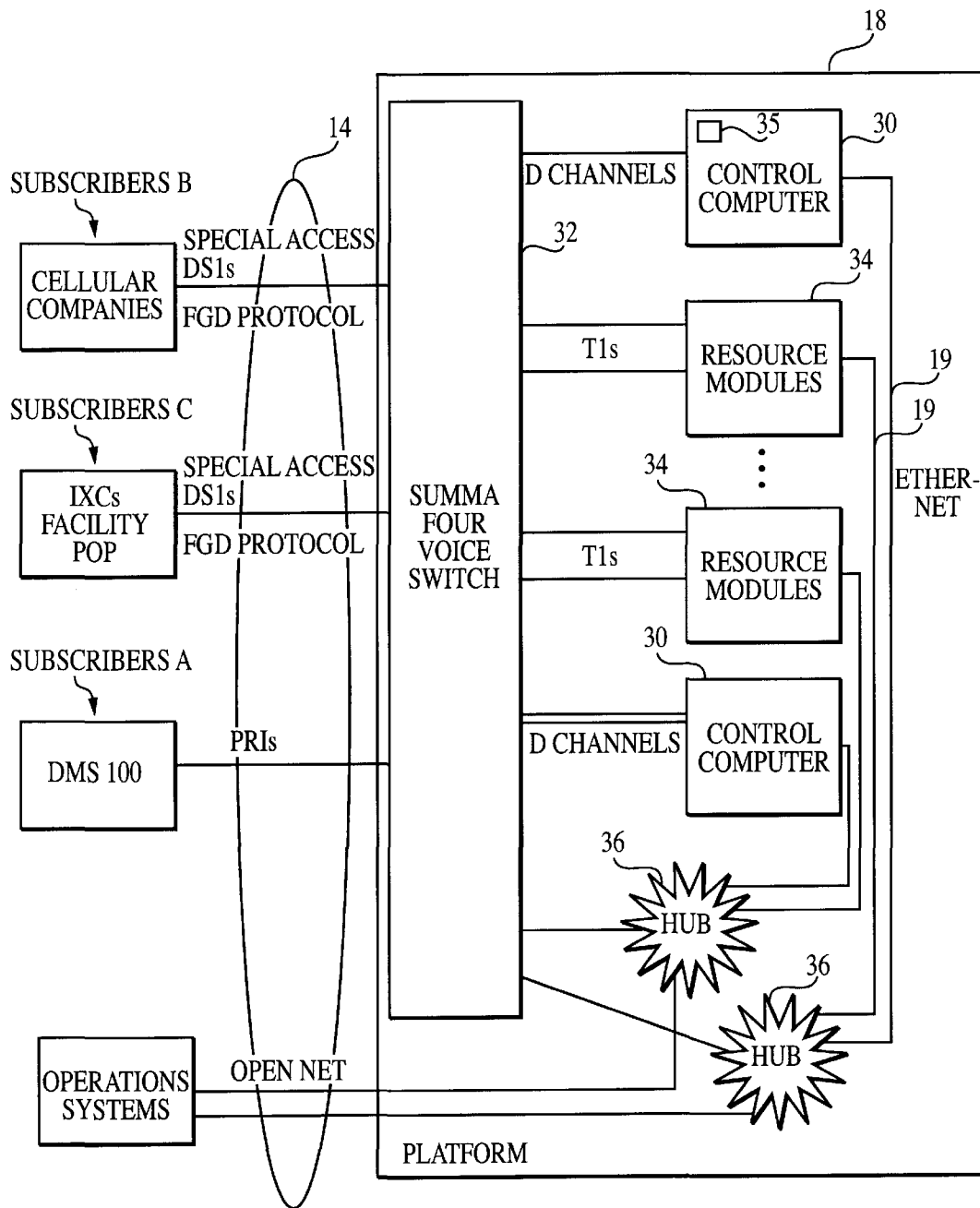


FIG. 4

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