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Alexander et al.

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(54) **SYSTEM AND METHOD FOR GENERATING MULTIPLE LINE APPEARANCES IN A COMMUNICATION NETWORK**

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(52) **U.S. Cl.** ..... **370/352**; 370/401; 379/93.01;  
379/211.02; 379/221.01; 455/445

(58) **Field of Search** ..... 370/352, 353,  
370/354, 355, 356, 389, 400, 401, 522;  
379/88.17, 93.01, 207.02, 207.03, 207.04,  
207.08, 207.09, 211.01, 211.03, 211.04,  
212.01, 220.01, 221.01, 221.02, 221.08,  
221.09; 455/445, 461

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(57) **ABSTRACT**

A communication system includes a communication network, and an originating telephony device, a target telephony device, and a call manager coupled to the communication network. The call manager signals the target telephony device to indicate an incoming call from the originating telephony device. The call manager includes an alternate number list that identifies at least one alternate telephony device to be signaled in response to an incoming call directed to the target telephony device. The call manager additionally includes one or more mapping tables associating a network address with each identified alternate telephony device.

**34 Claims, 5 Drawing Sheets**

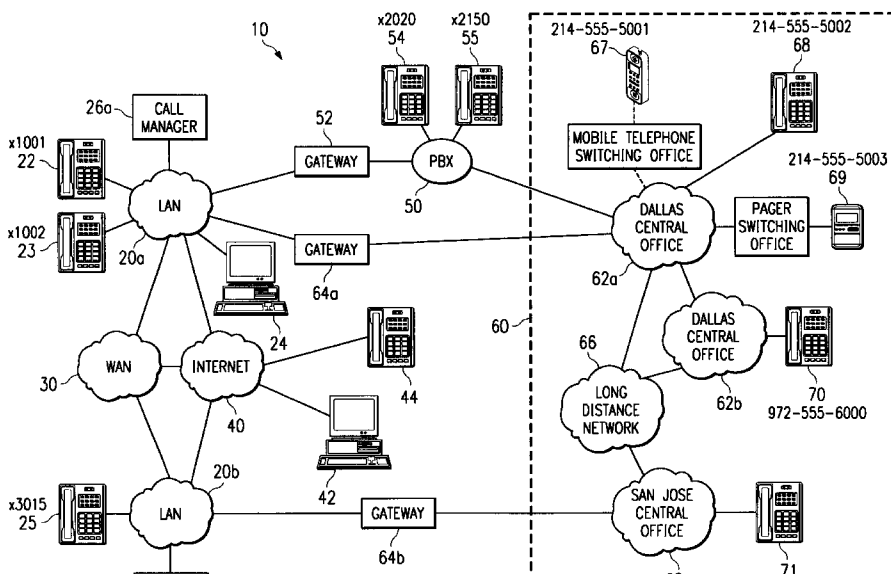


FIG. 1

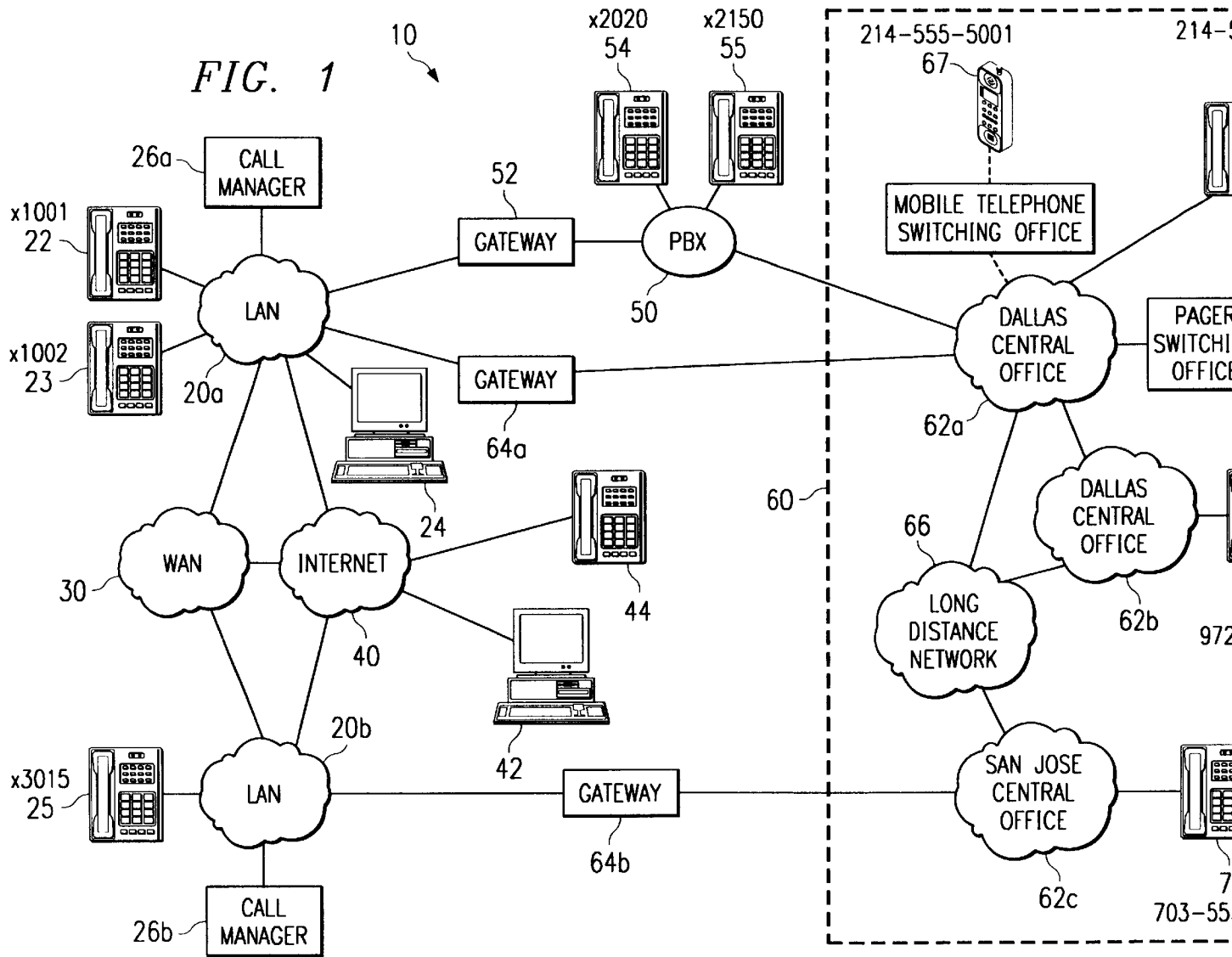
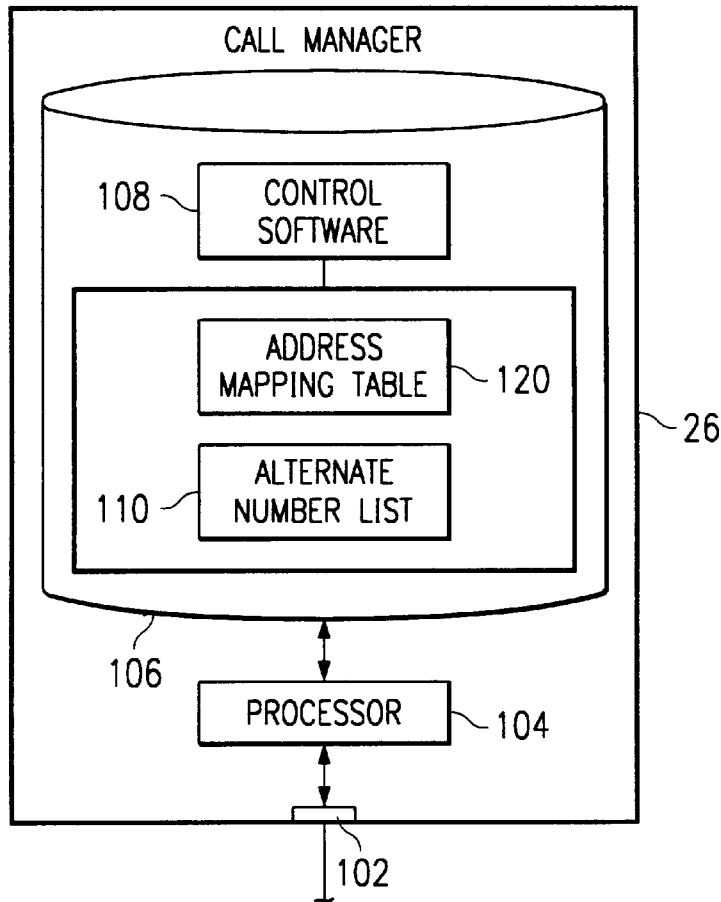


FIG. 2



110  
FIG. 3

ALTERNATE NUMBER	RING DELAY TIME
1002	0
2150	0
214-555-5001	3
3015	3
214-555-5003	7

112

114

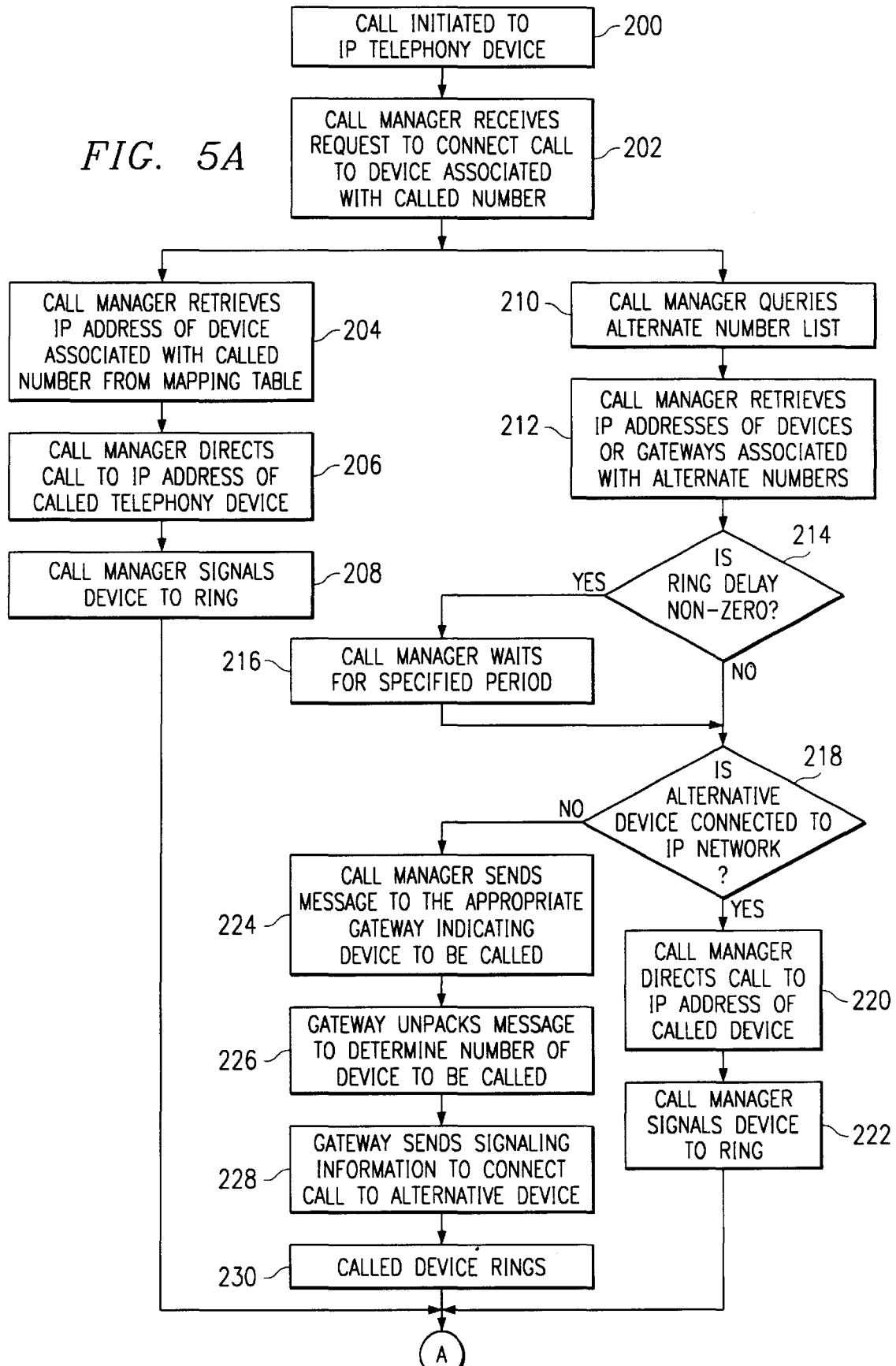
FIG. 4A <sup>120a</sup>

PHONE NUMBER	DEVICE/GROUP NAME
1001	PHONE1
1002	PHONE2
1002	PHONE3
2000-2999	PBXGATEWAY
214-555-5001	GATEWAYGROUP1
214-555-5002	GATEWAYGROUP1
214-555-5003	GATEWAYGROUP1
972-555-6000	GATEWAY5
3015	PHONE25
703-XXX-XXXX	GATEWAYGROUP2

FIG. 4B <sup>120b</sup>

DEVICE NAME	IP ADDRESS
PHONE1	150.100.30.1
PHONE2	150.100.30.2
PBXGATEWAY	150.100.30.50
GATEWAY1	150.100.30.55
GATEWAY2	150.100.30.56
GATEWAY3	150.100.30.57
GATEWAY5	150.100.30.58
PHONE25	150.200.70.15
GATEWAY10	150.200.70.50
GATEWAY11	150.200.70.51

FIG. 5A



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