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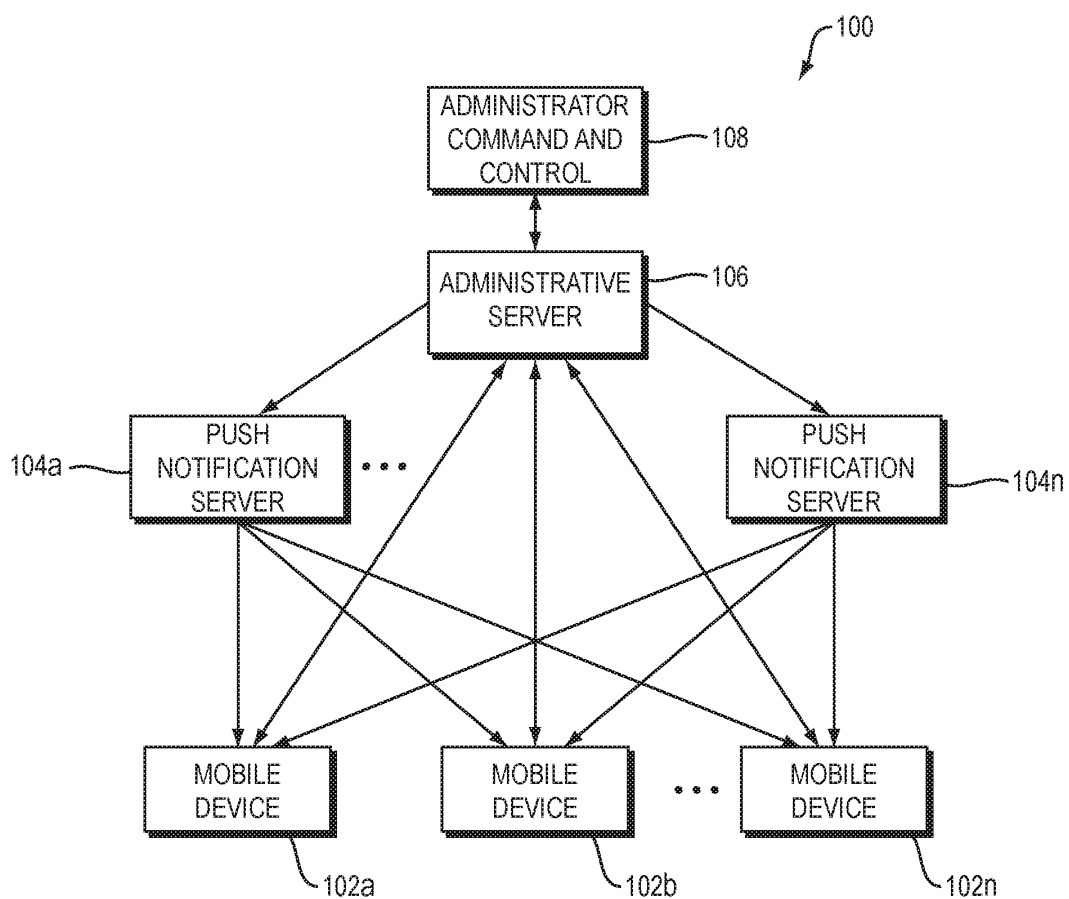


FIG. 1

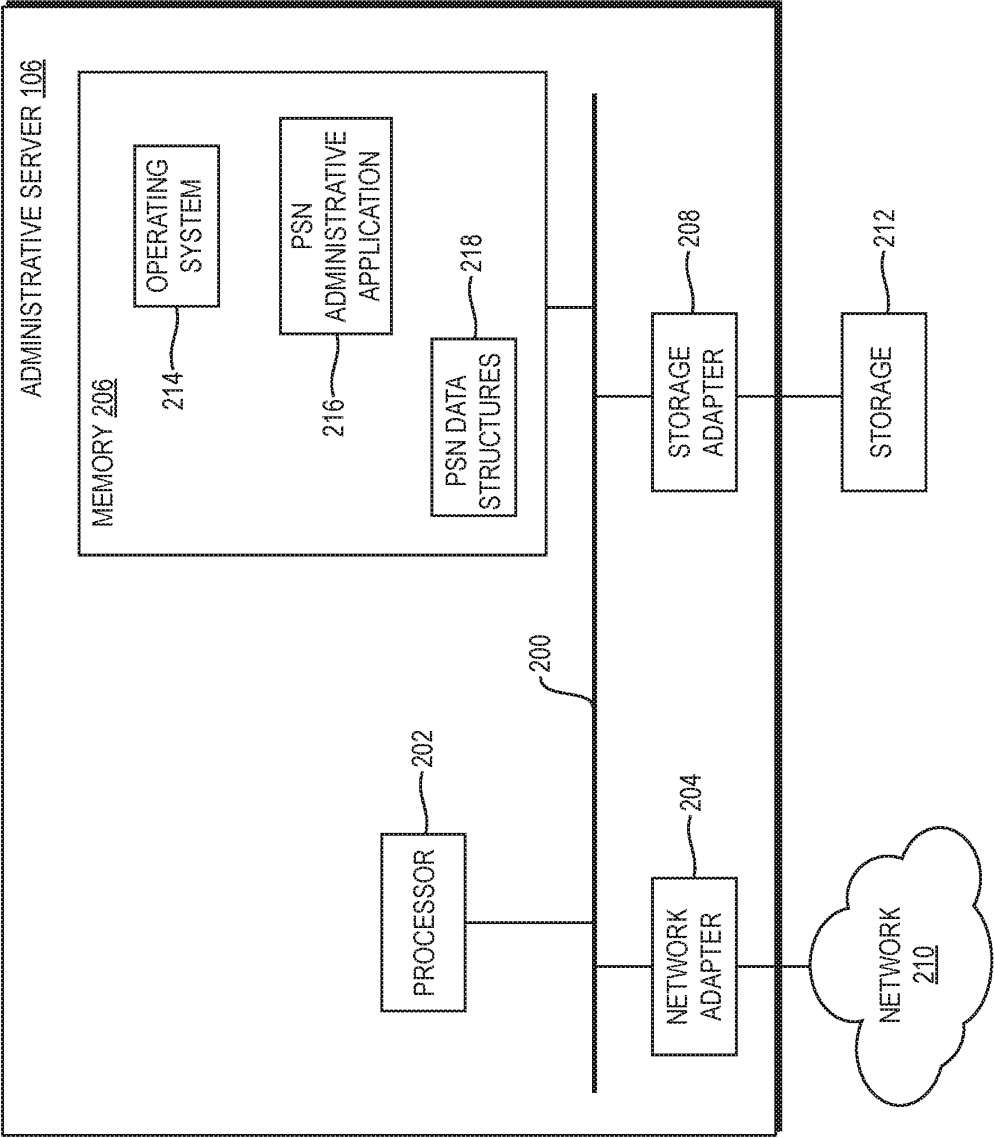


FIG. 2

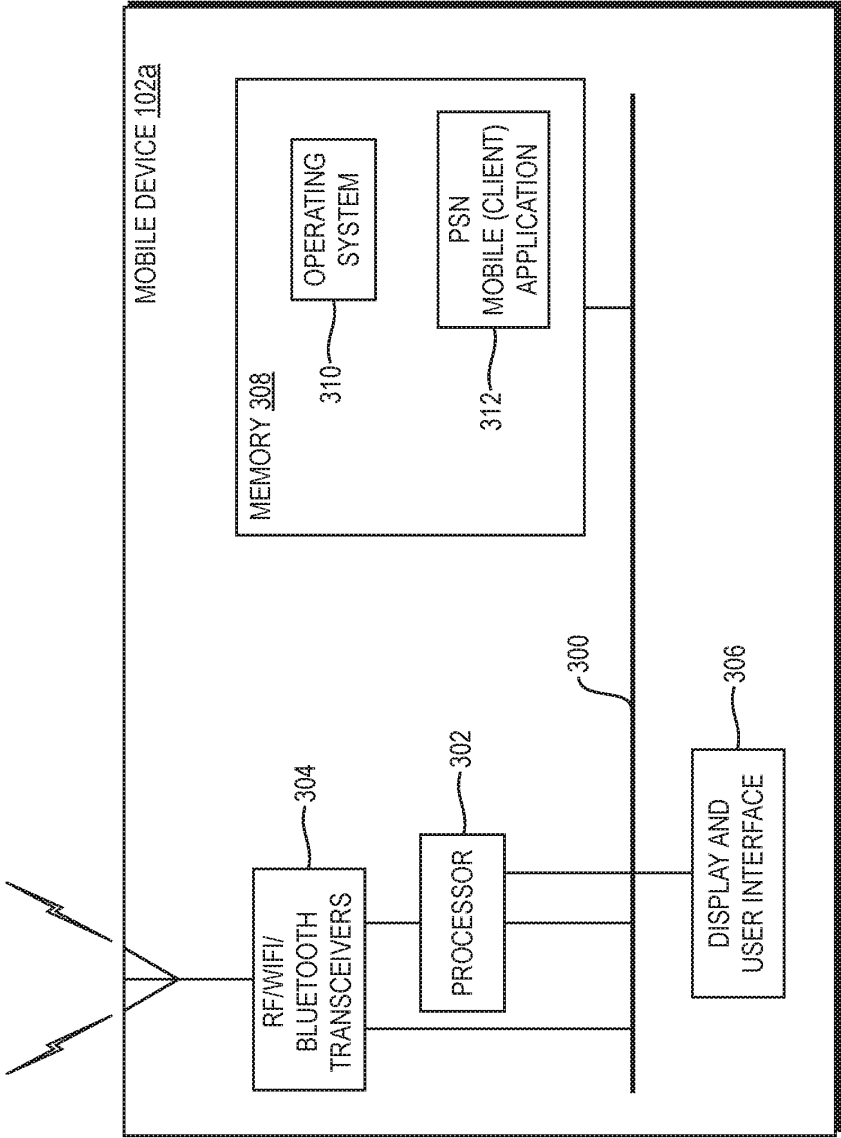


FIG. 3

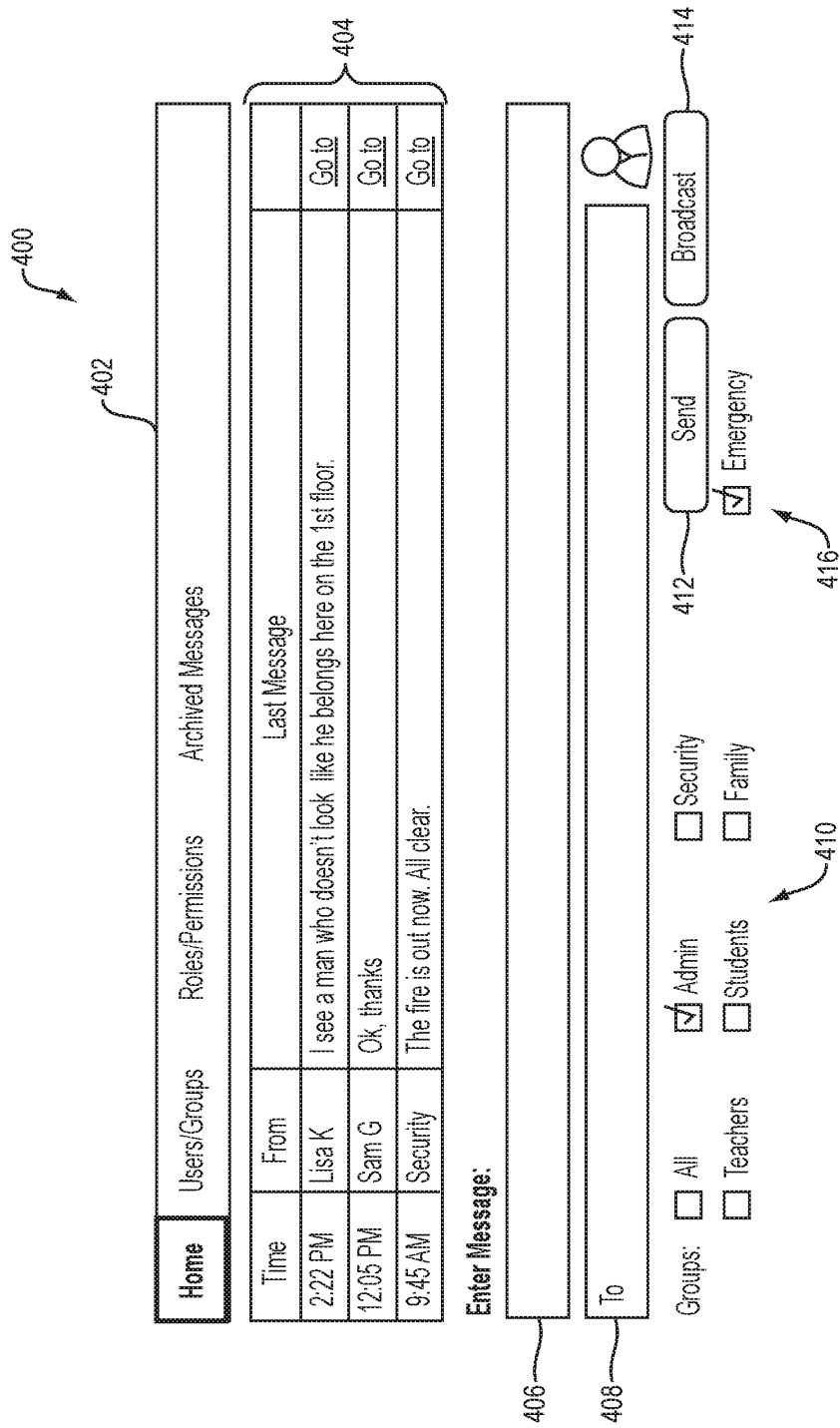


FIG. 4A

418

402

Home

Users/Groups

Roles/Permissions

Archived Messages

Time	From	Message	Location
2:25 PM	Admin	Evacuate immediately using stairwell 2.	Main Office
2:25 PM	Security	There is an unauthorized man on the 2nd floor outside room 202. Evacuate now.	Bldg 201
2:24 PM	Tim	I see him in the hallway on the 2nd floor.	Bldg 201
2:23 PM	Security	I'm in the building right now.	Bldg 201
2:23 PM	Ellen	I see him on the 2nd floor. He has a torn up plaid shirt, and is carrying a duffel bag.	Bldg 201
2:22 PM	Security	I'll check it out.	Front Gate
2:22 PM	Lisa	He just went up the stairs at stairwell 1.	Bldg 201
2:22 PM	Lisa	I see a man who doesn't look like he belongs here on the 1st floor.	Bldg 201

420

Enter Message:

406

Groups:

☒ All

☐ Teachers

☐ Admin

☐ Students

☐ Security

☐ Family

412

414

416

410

Reply

Broadcast

☒ Emergency

FIG. 4B

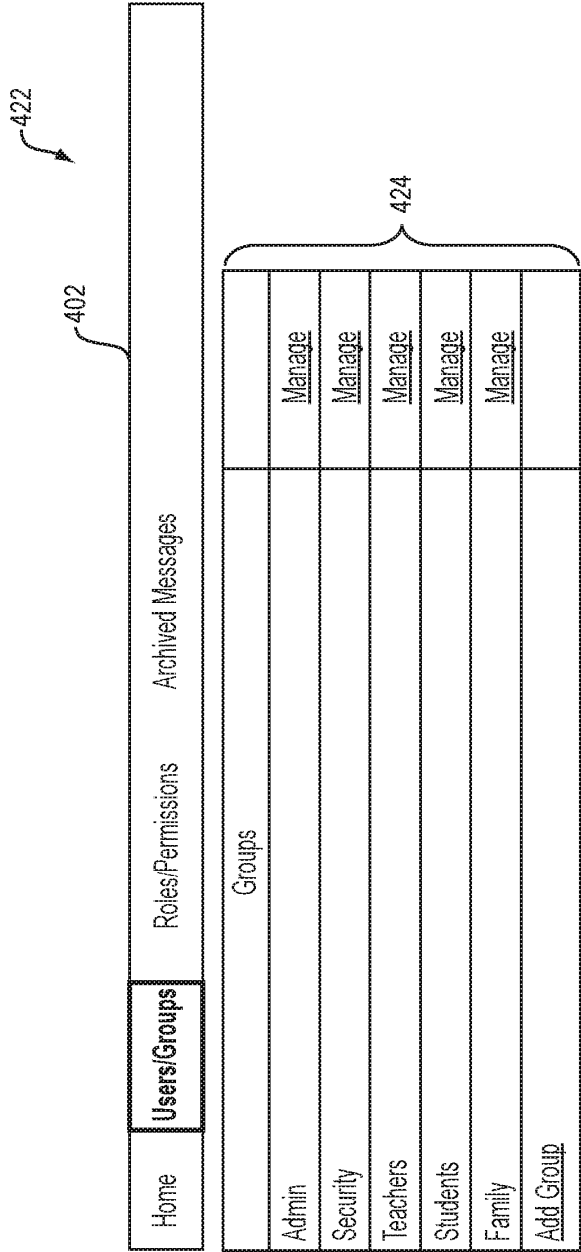


FIG. 4C

426

402

Home

Users/Groups

Roles/Permissions

Archived Messages

Manage Group

428

434

432

430

436

438

Name

Family

Role

Family

▼

Save

Import Users

Group Users

Name	ID	Email	Phone	
Lisa K	9325	lisa@apple.com	555-9325	<u>Edit</u> <u>Delete</u>
Jim W	6885	jim@gmail.com	555-6885	<u>Edit</u> <u>Delete</u>
Alice M	3247	alice@microsoft.com	555-3247	<u>Edit</u> <u>Delete</u>
Sam G	1021	sam@yahoo.com	555-1021	<u>Edit</u> <u>Delete</u>
				<u>Add</u>

Requests for New Users

Member:	Name	Email	Phone	Relation	Approve	Disapprove
	Lisa K	Dan G	dan@gmail.com	555-1985	Father	

FIG. 4D

Figure 4 is a screenshot of a web application interface for managing roles and permissions. The interface includes a top navigation bar with the following elements: a 'Home' link, a 'Users/Groups' link, a 'Roles/Permissions' link (which is the active page), and an 'Archived Messages' link. On the left side, there is a sidebar containing a 'Save' button. The main content area displays a table with the following columns: 'Role Name', 'Admin', 'Add User', 'Approve User', and 'Broadcast'. The table lists four roles: 'Admin', 'Staff', 'Students', and 'Family'. The 'Admin' role has checked boxes for 'Admin', 'Add User', and 'Broadcast'. The 'Students' role has checked boxes for 'Add User' and 'Broadcast'. The 'Family' role has a checked box for 'Approve User'. Below the table, there is a section for adding a new role, labeled 'Add' with a plus icon. This section includes a text input field labeled 'Enter New Role Name' and a 'Save' button. Reference numerals 402, 440, and 444 point to the navigation bar, the sidebar, and the 'Save' button respectively.

Role Name	Admin	Add User	Approve User	Broadcast
Admin	☒	☒	☒	☒
Staff	☐	☐	☐	☒
Students	☐	☒	☐	☒
Family	☐	☐	☒	☐

Below the table, there is a section for adding a new role, labeled 'Add' with a plus icon. This section includes a text input field labeled 'Enter New Role Name' and a 'Save' button.

E
4
G
E

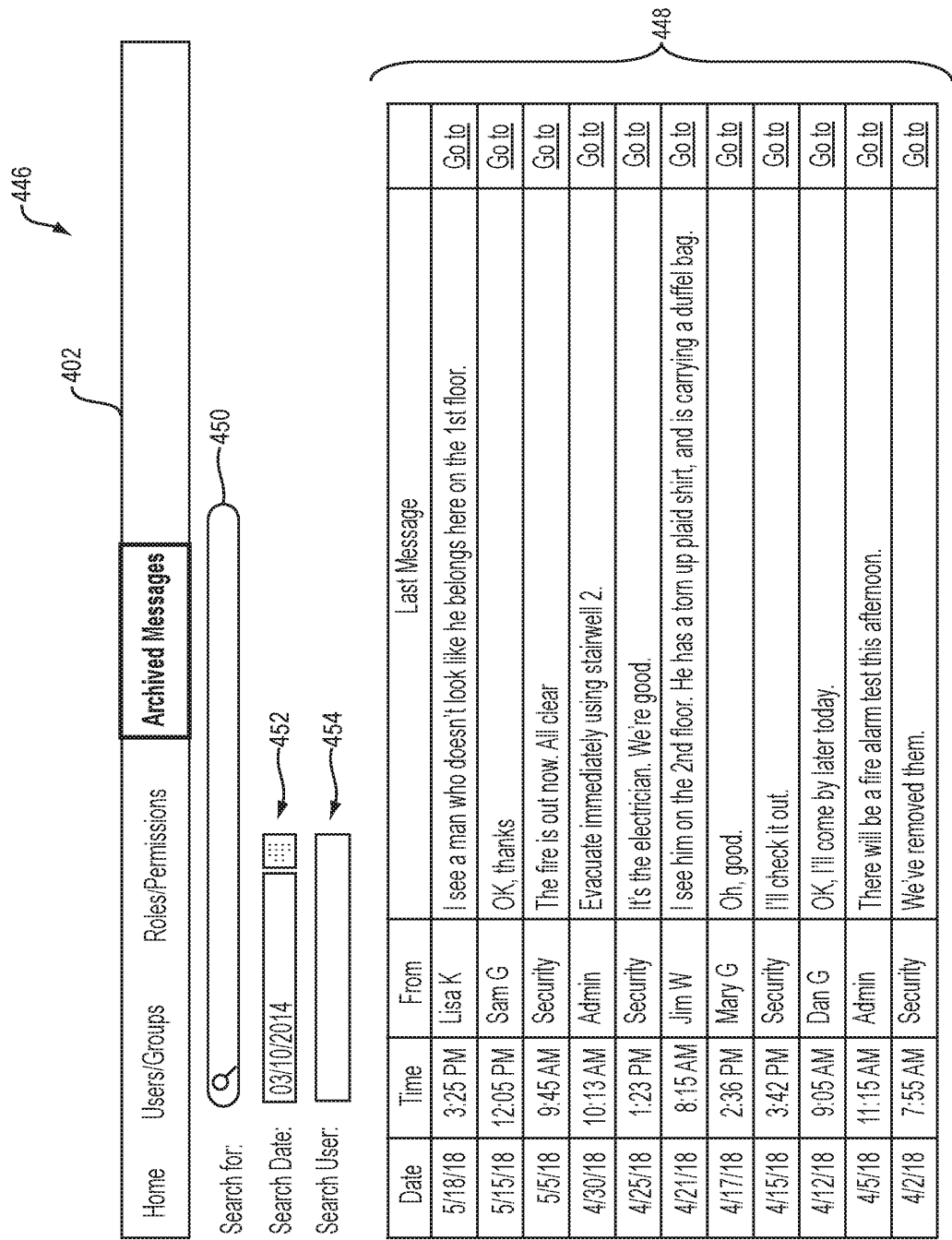


FIG. 4F

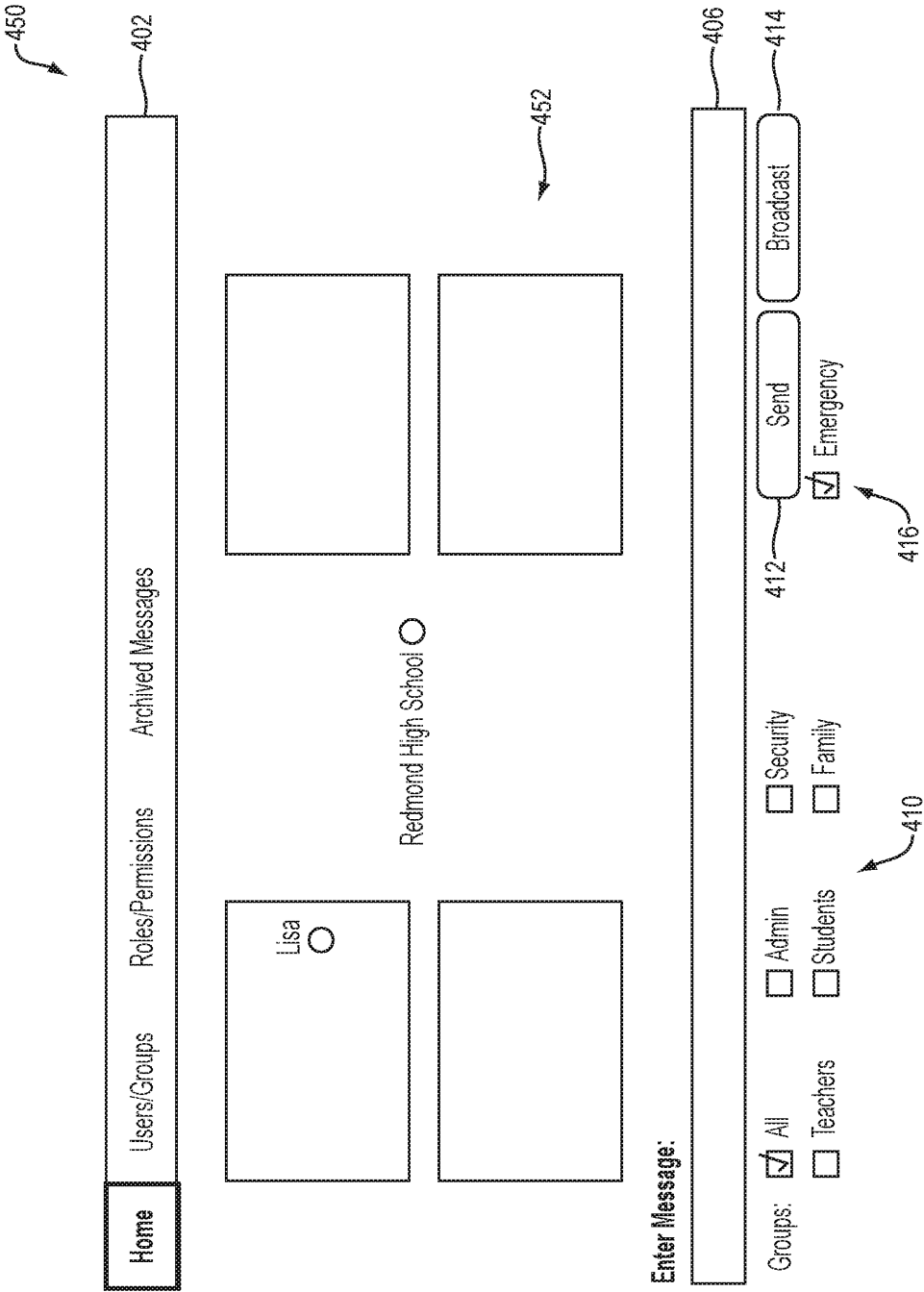


FIG. 4G

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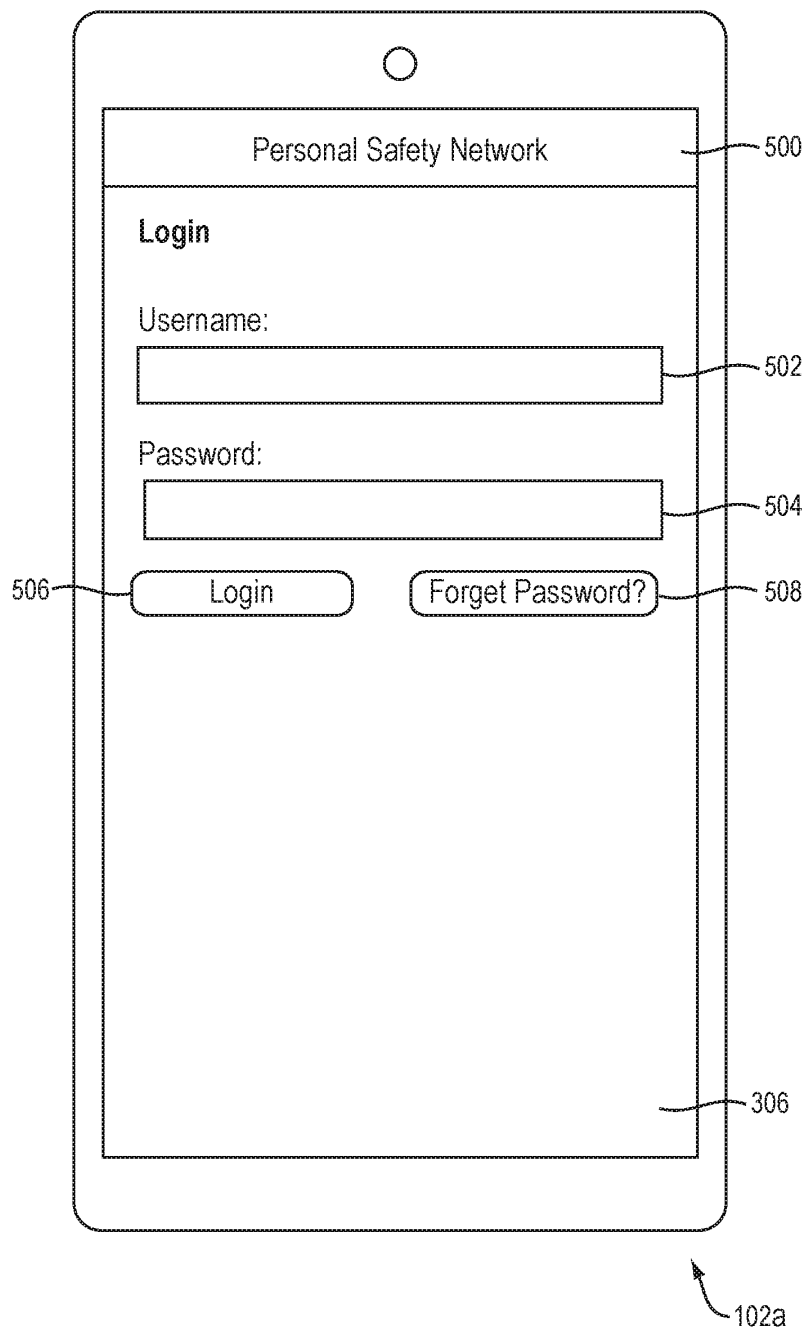


FIG. 5A

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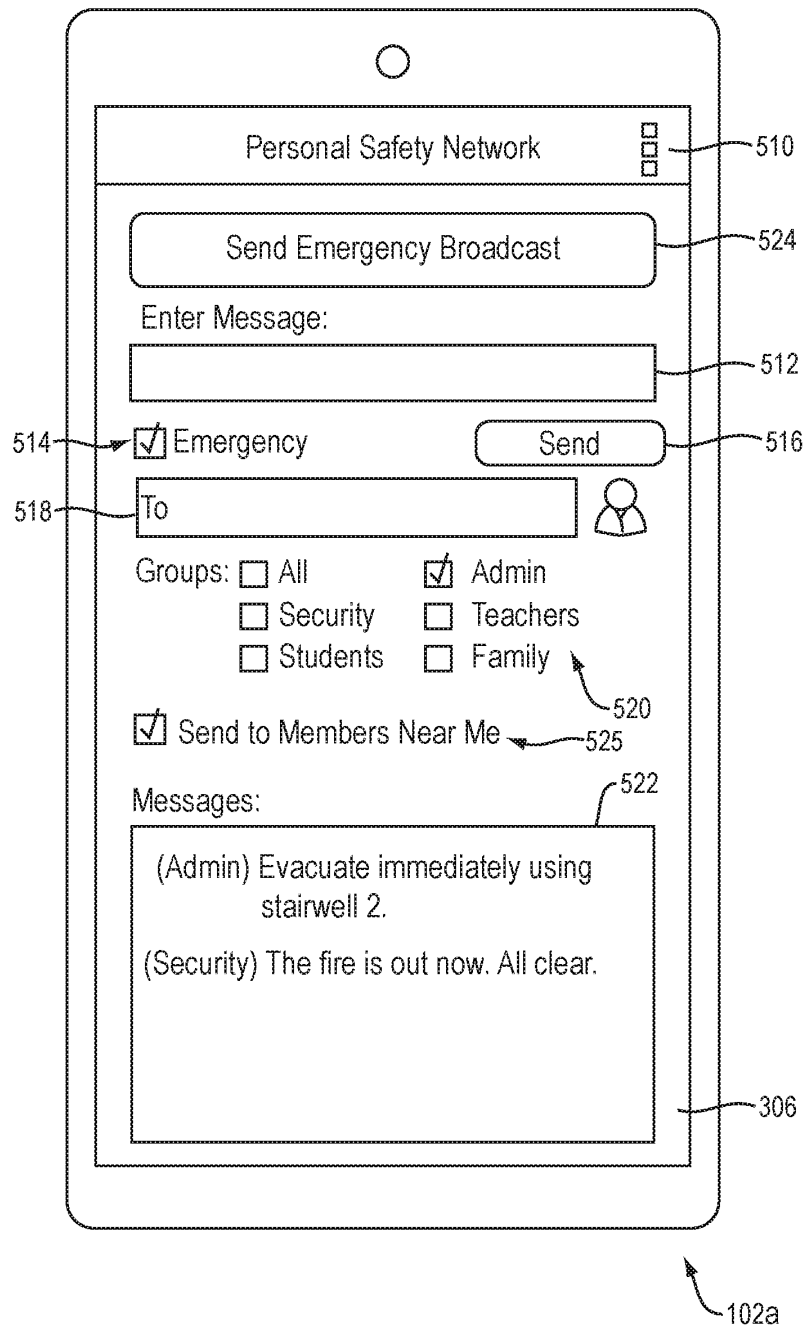


FIG. 5B

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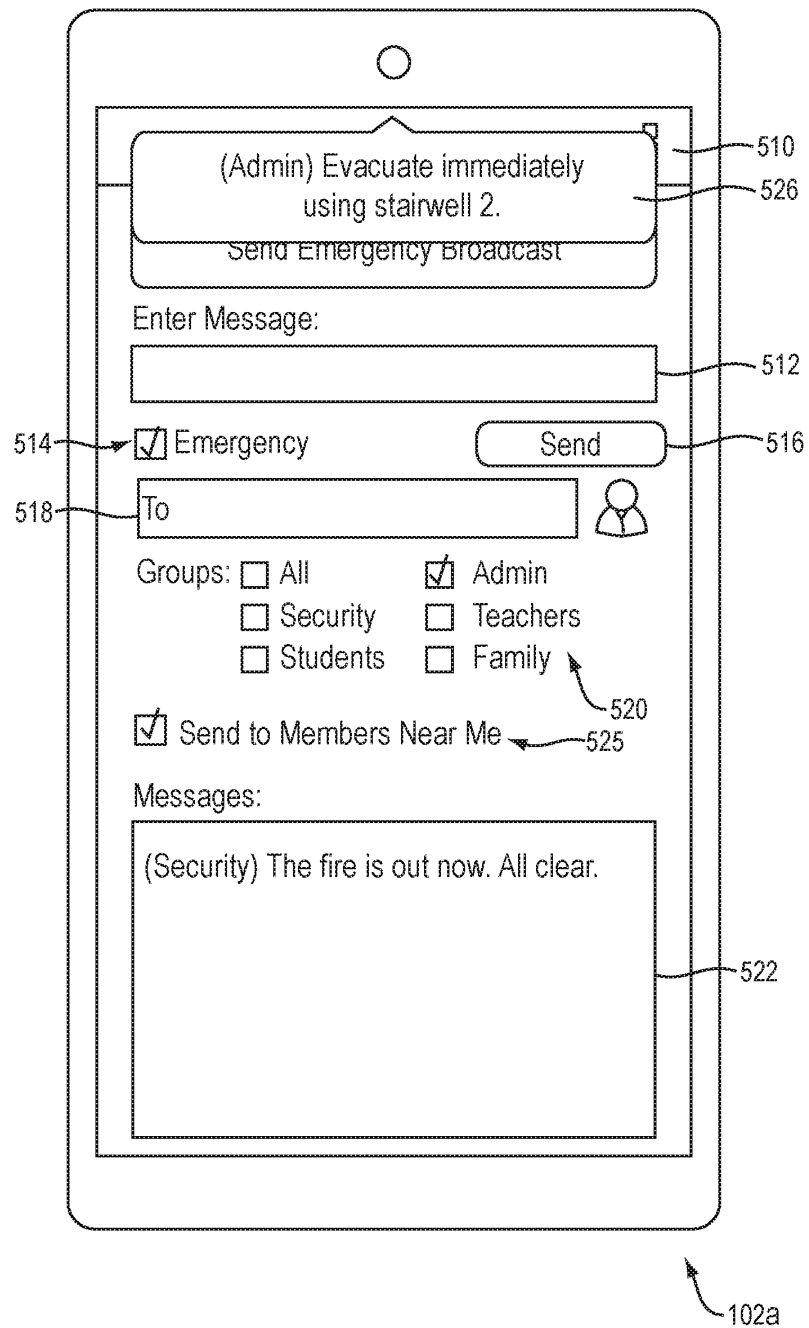


FIG. 5C

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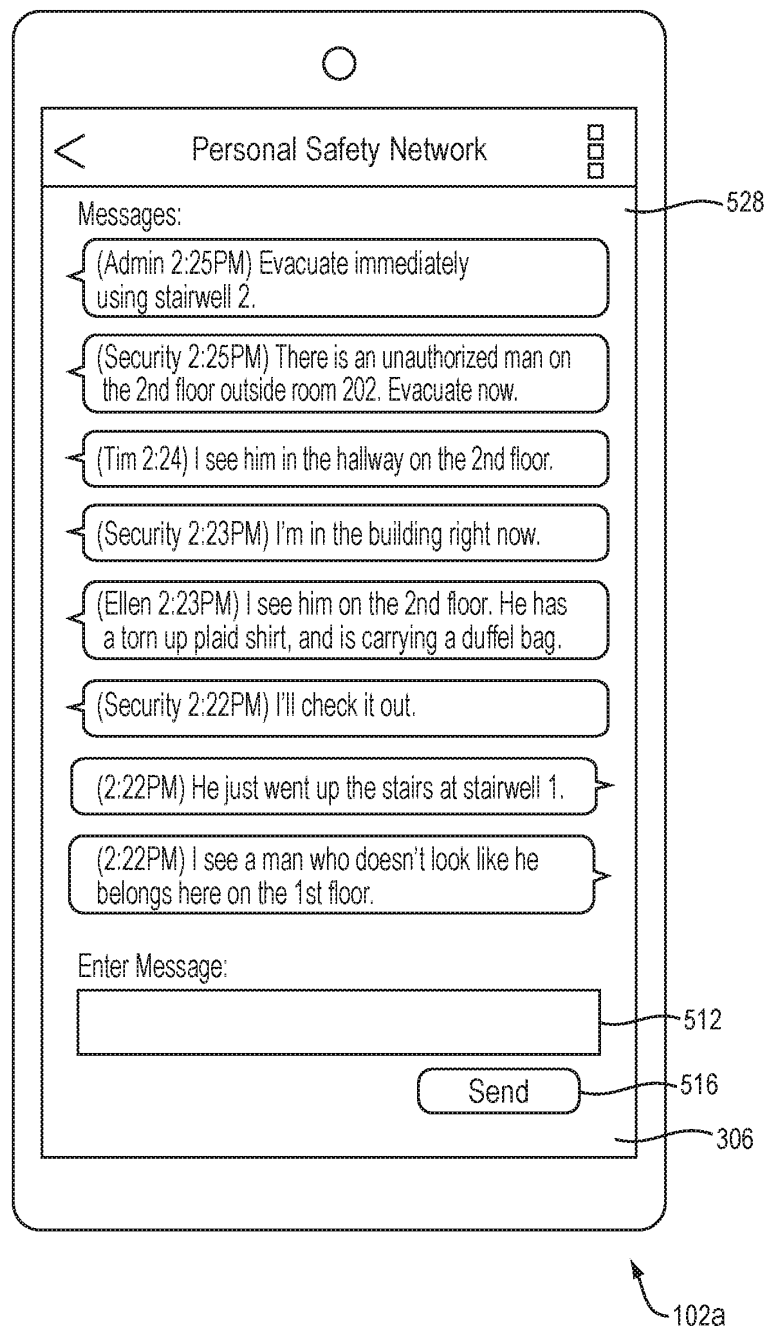
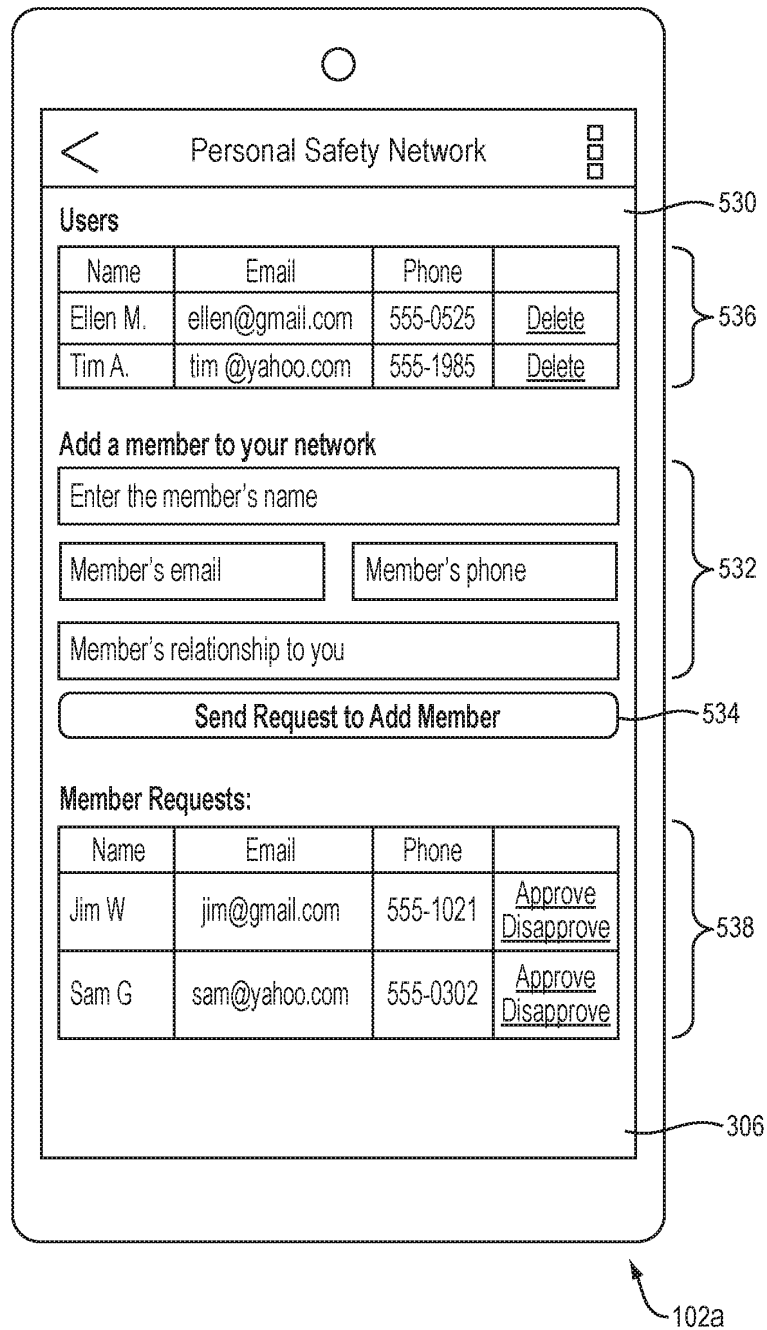


FIG. 5D

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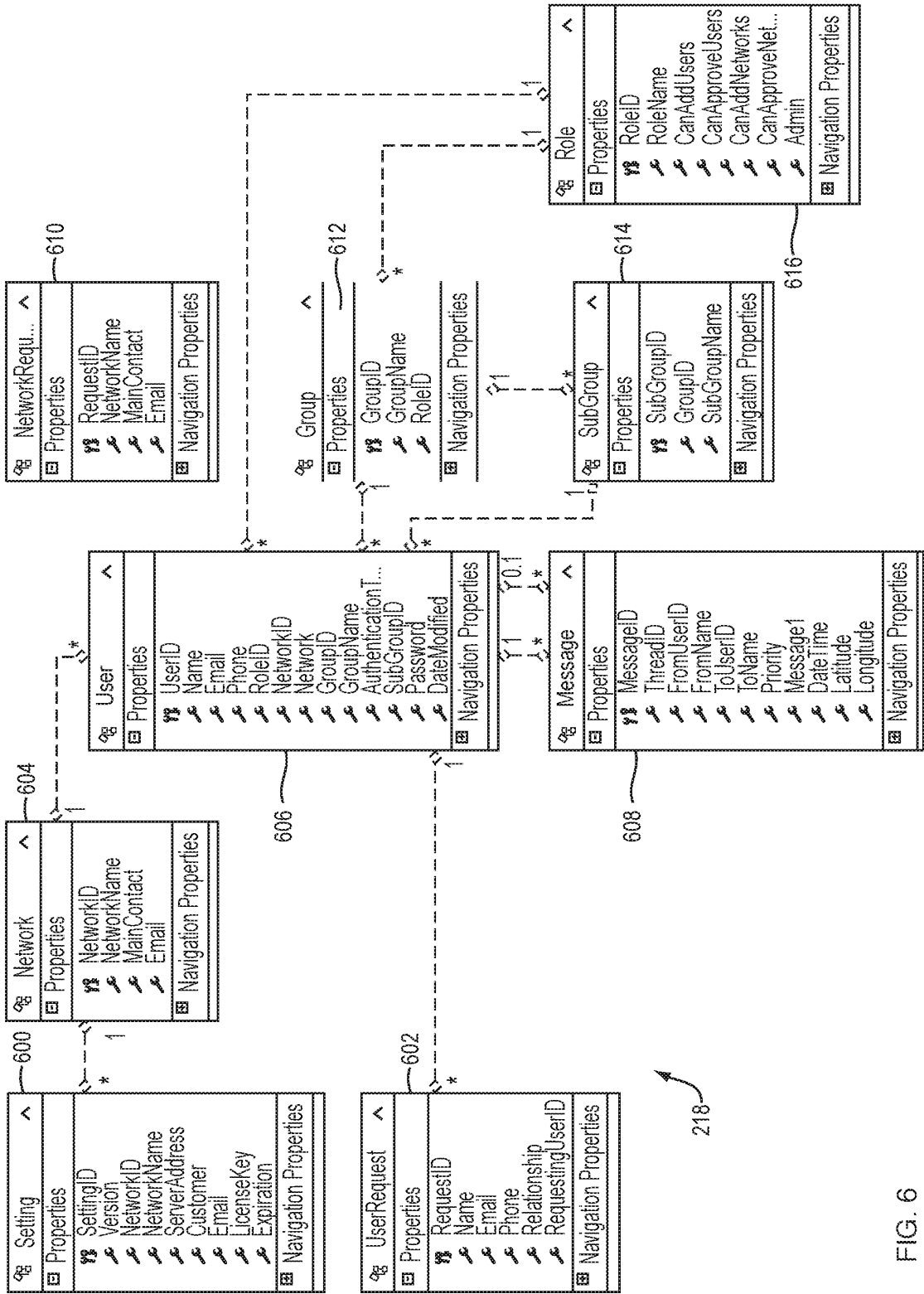


FIG. 6

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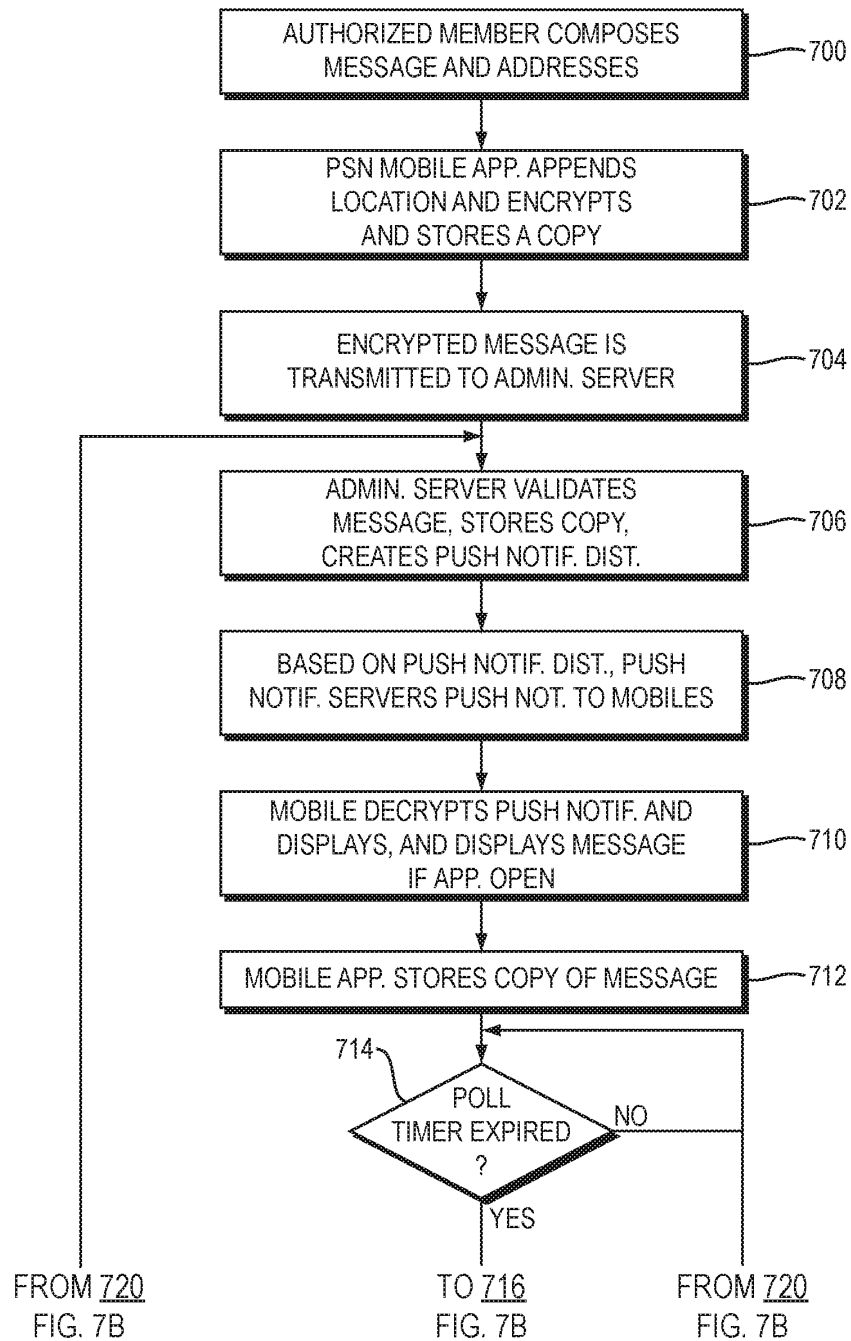


FIG. 7A

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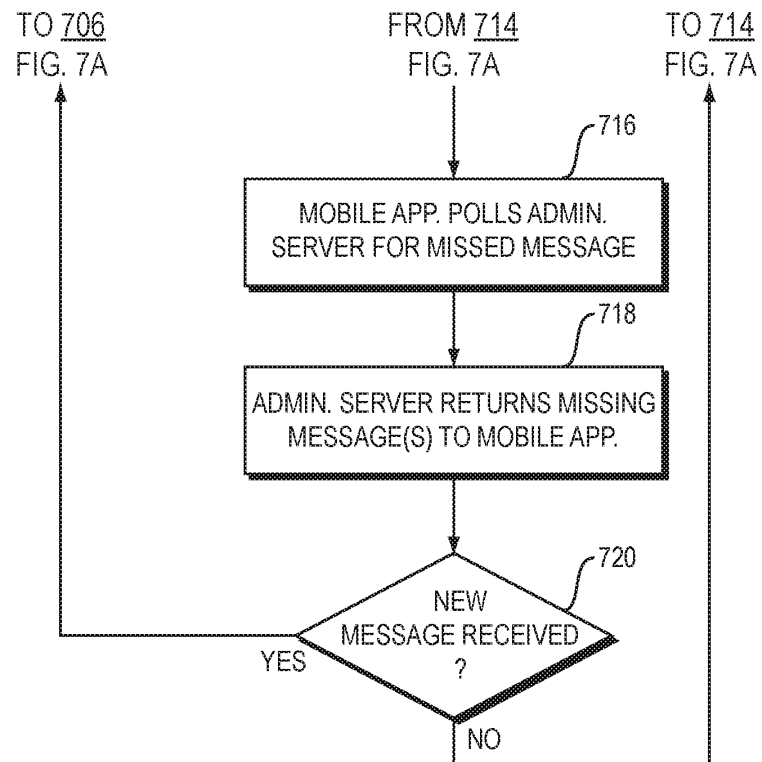


FIG. 7B

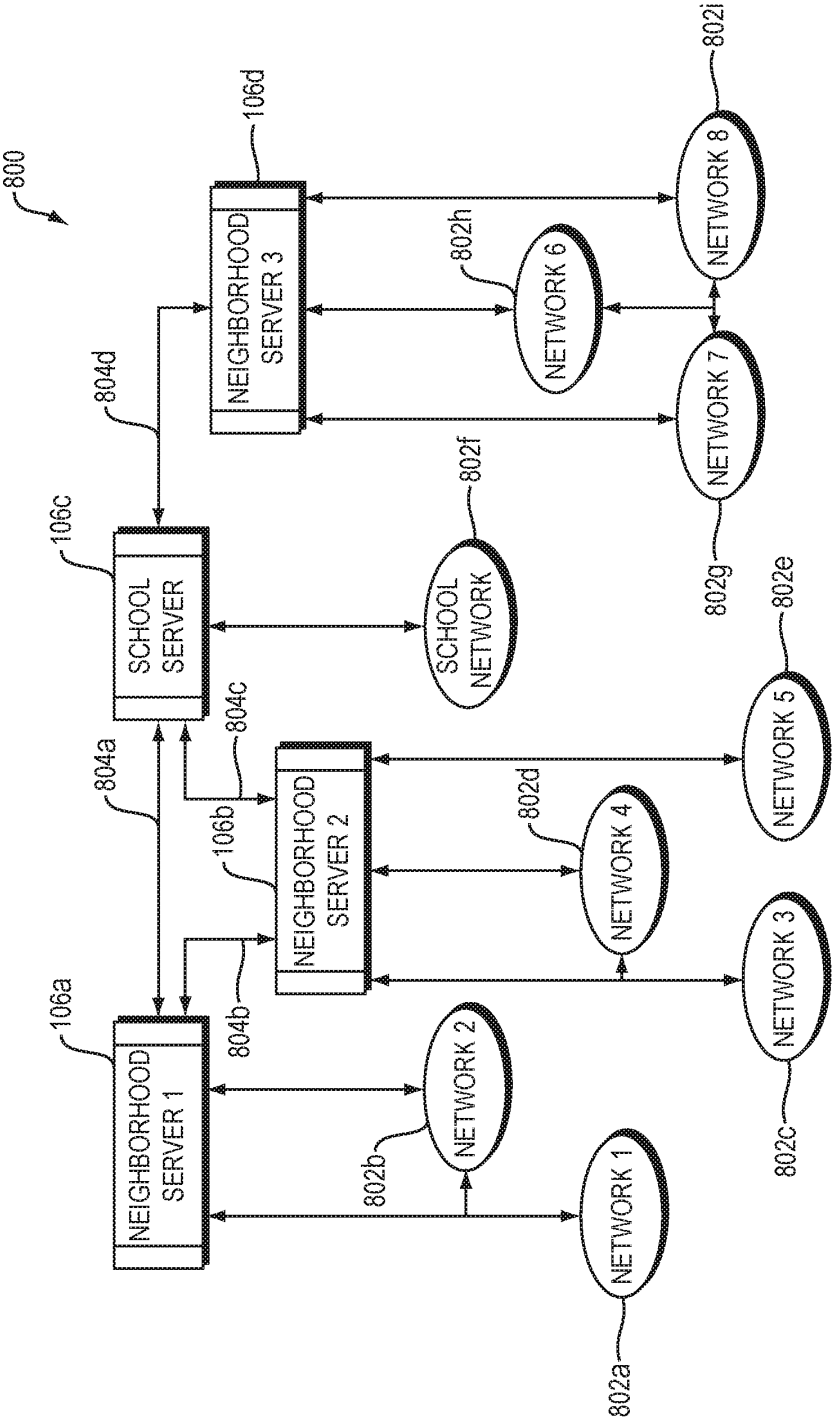


FIG. 8

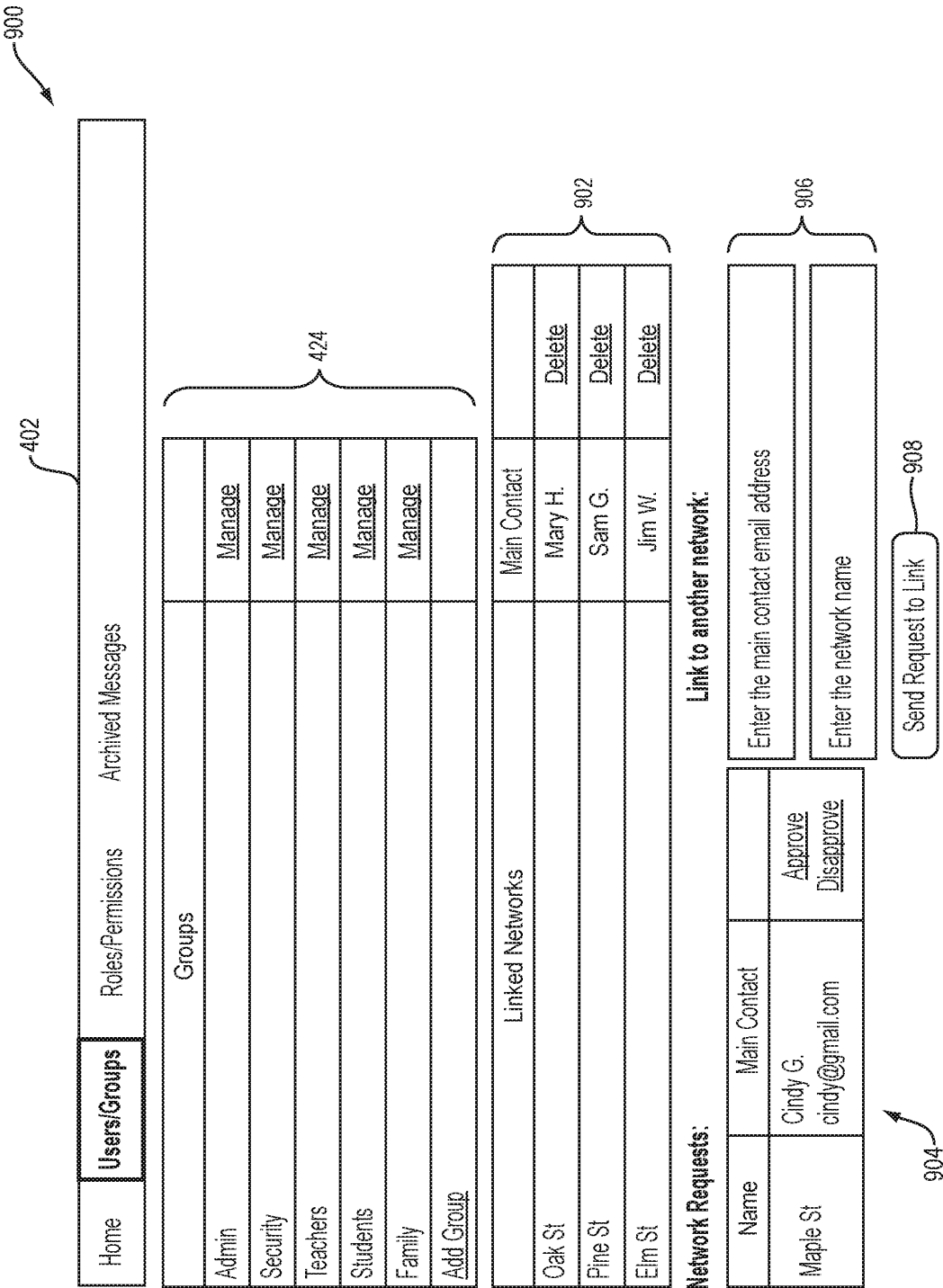


FIG. 9

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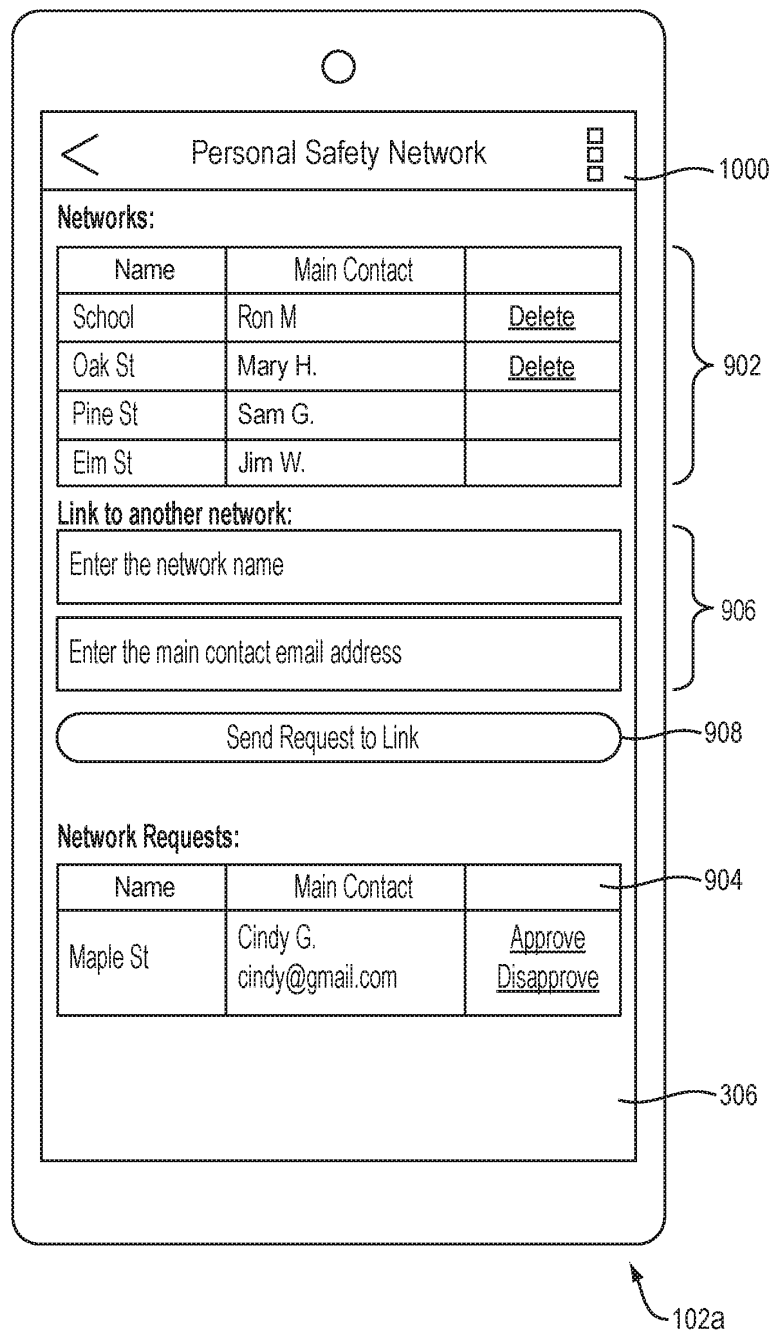


FIG. 10

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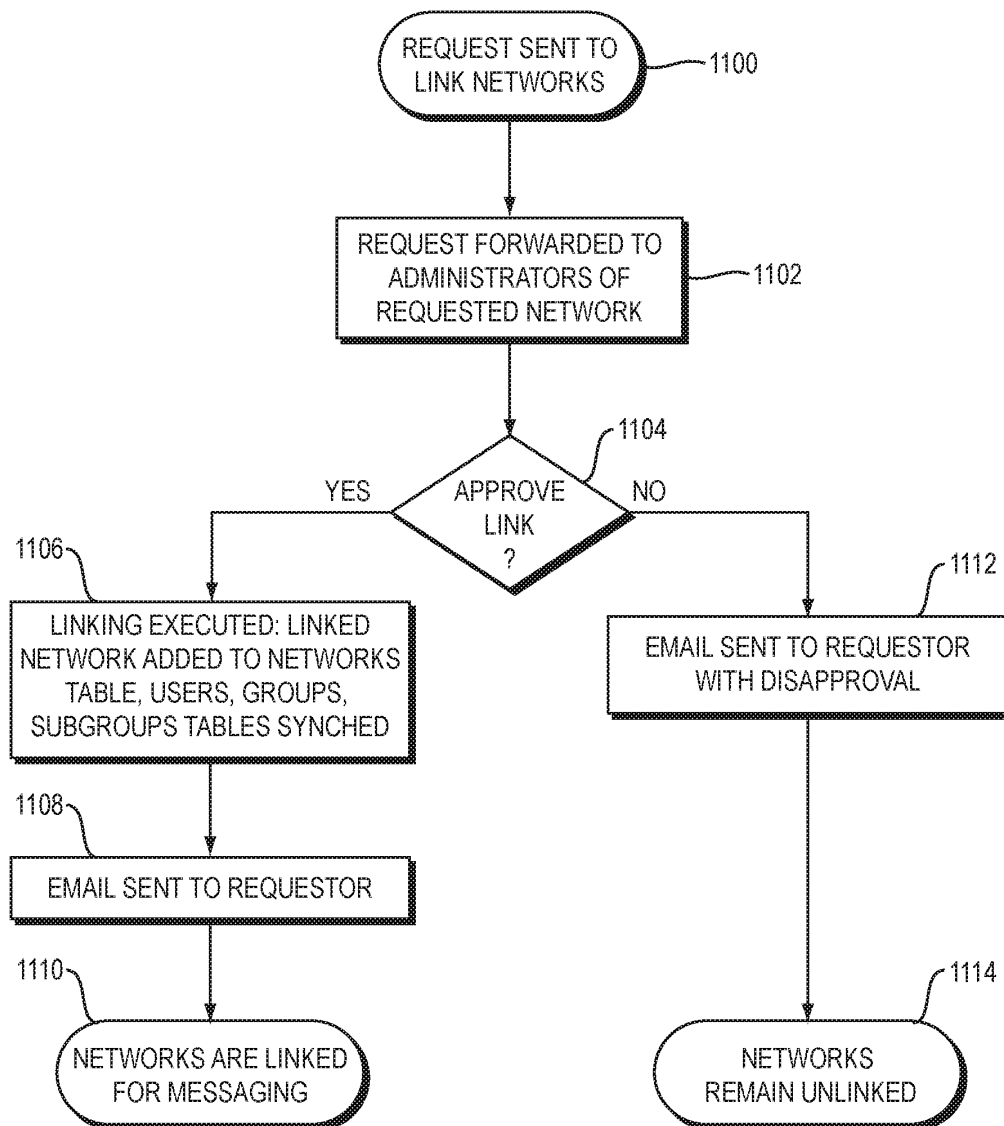


FIG. 11

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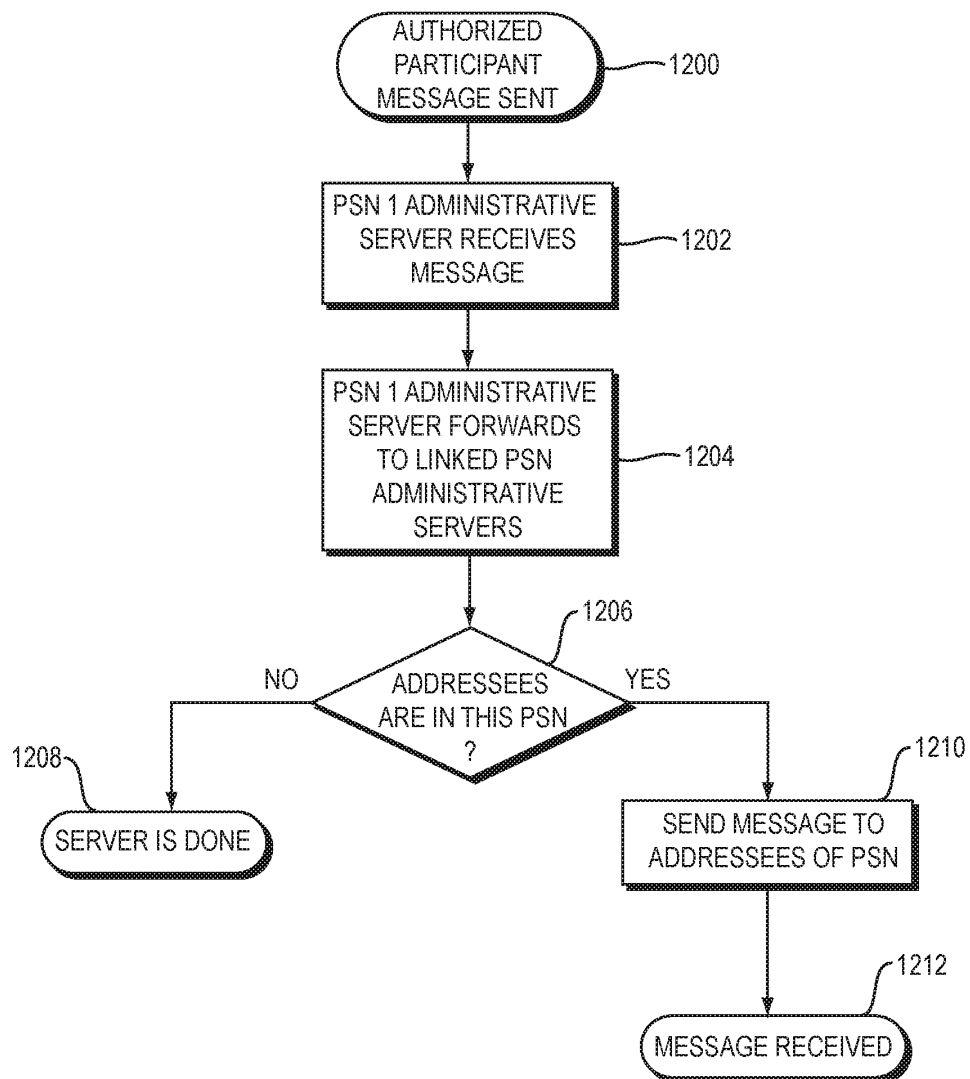


FIG. 12

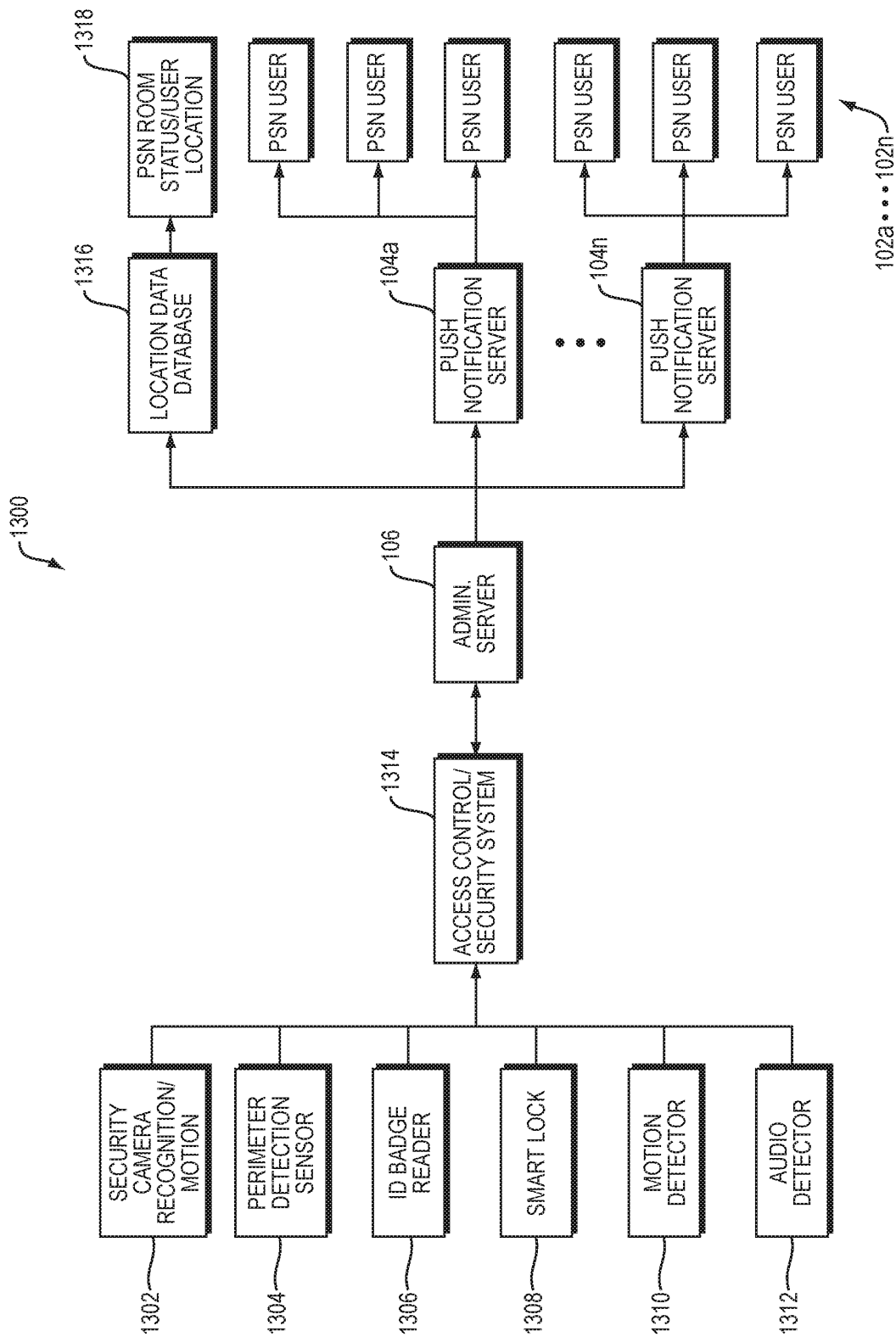


FIG. 13

25/34

1400

1404

	Admin	Family	Security	Students	Teachers
Communications	☐	☐	☐	☐	☐
Door held open	☐	☐	☒	☐	☐
Forced Door	☒	☐	☒	☐	☐
Intrusion	☒	☐	☒	☐	☐
Invalid Credential	☐	☐	☒	☐	☐
Maintenance	☒	☐	☐	☐	☐
Output	☐	☐	☐	☐	☐
Power	☒	☐	☐	☐	☐
System	☐	☐	☐	☐	☐
System audit	☐	☐	☐	☐	☐
Tamper	☒	☐	☒	☐	☐
User audit	☐	☐	☐	☐	☐
Valid Credential	☐	☐	☐	☒	☐
Video	☐	☐	☒	☐	☐

Save Notification Settings

1406

1402

FIG. 14

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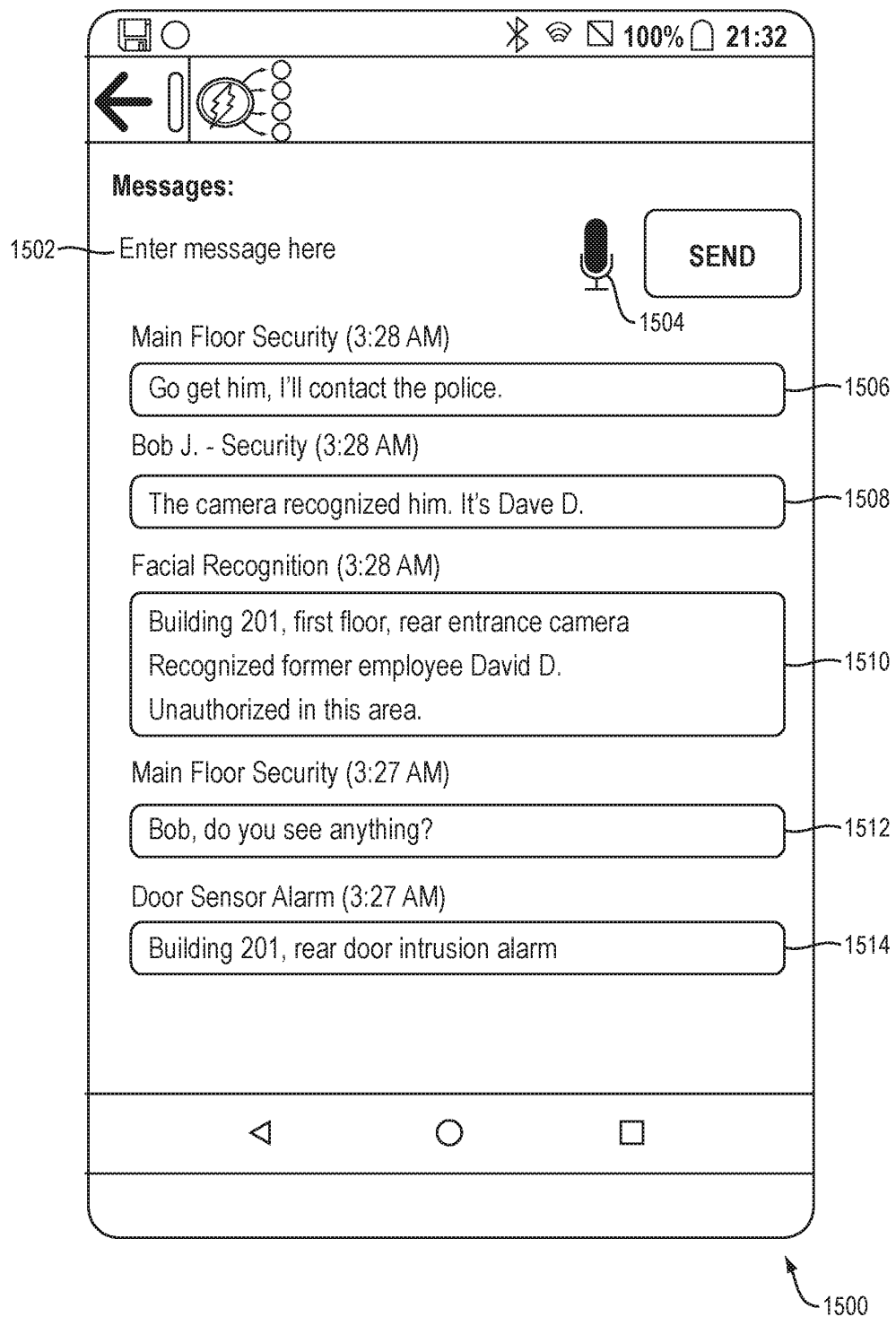


FIG. 15

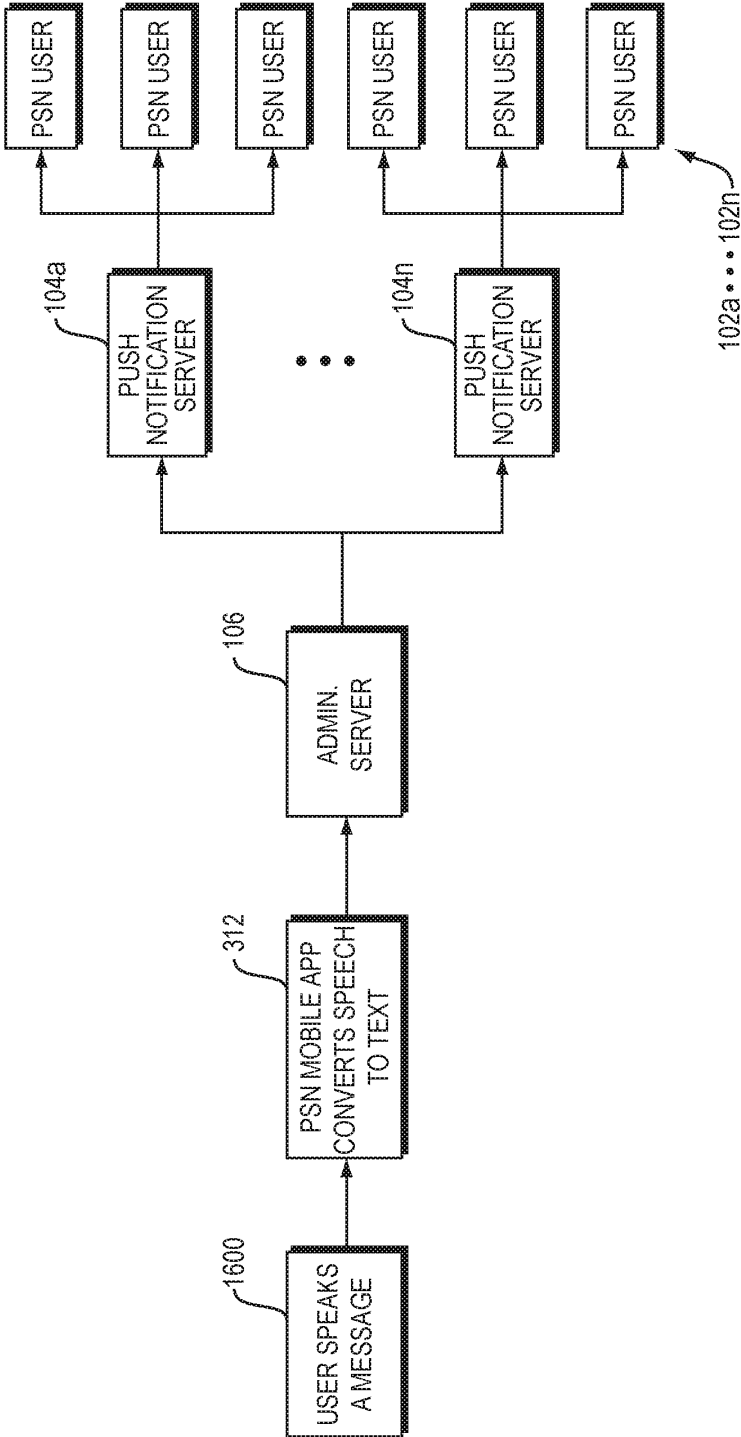


FIG. 16

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1700

1702

Home Users/Groups Roles/Permissions Linked Networks Archived Messages

Today's Messages:

Time	From	Last Message	
3:28 PM	Admin	Use PSN to contact your parents and family	View Messages
3:08 PM	Admin	All students please return to home room classes. School will let out at 2:05pm.	View Messages
1:16 PM	Admin	bring them to front office now	View Messages
12:50 PM	Admin	To all, we've had an incident in the parking lot. It's under control, and the police are coming. No one has been harmed, and we're all safe. We'll give you more news when we get it.	View Messages

1704

View 1 - 1 of 4

Enter Message

1706

Send to groups:

1708 { ☐ All ☐ Admin ☐ Family ☐ Security ☐ Students ☐ Teachers ☐ Responders Dispatch

☐ Send as High Priority ☐ Send as Emergency Message

1710 1712

Send 1714

Send Dashboard Link 1716

FIG. 17

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Today's Messages:

Time	From	Last Message		
3:28 PM	Admin	Use PSN to contact your parents and family	View Messages	1704
3:08 PM	Admin	All students please return to home room classes. School will let out at 2:05pm.	View Messages	
1:16 PM	Admin	bring them to front office now	View Messages	
12:50 PM	Admin	To all, we've had an incident in the parking lot. It's under control, and the police are coming. No one has been harmed, and we are all safe. We'll give you more news when we get it.	View Messages	

1800

View 1 - 4 of 4

1800

FIG. 18A

Messages				
Time	From	Message	Recipients	
3:28 PM	Admin	Use PSN to contact your parents and family	ALL	Location
3:27 PM	Admin	All students and staff, please gather at the football field	ALL	Location
3:27 PM	Security-Brett Gilson	We have him, there are injuries, calling for EMTs	ALL	Location
3:26 PM	Admin	People in 205, evacuate if you can using the rear stairwell. Rooms in the front, lock down.	ALL	Location
3:26 PM	Security-Brett Gilson	We're on the way.	ALL	Location
3:26 PM	Jim Welch	He's trying to get into room 221	ALL	Location
3:26 PM	Joan T. Baxter	It's coming from the front of the building	ALL	Location
3:26 PM	Admin	People on the first floor of 205, evacuate now. All other buildings, evacuate to the west parking lot.	ALL	Location
3:25 PM	Kevin A.	It's in building 205, 2nd floor	ALL	Location
View 1 - 10 of 10				

FIG. 18B

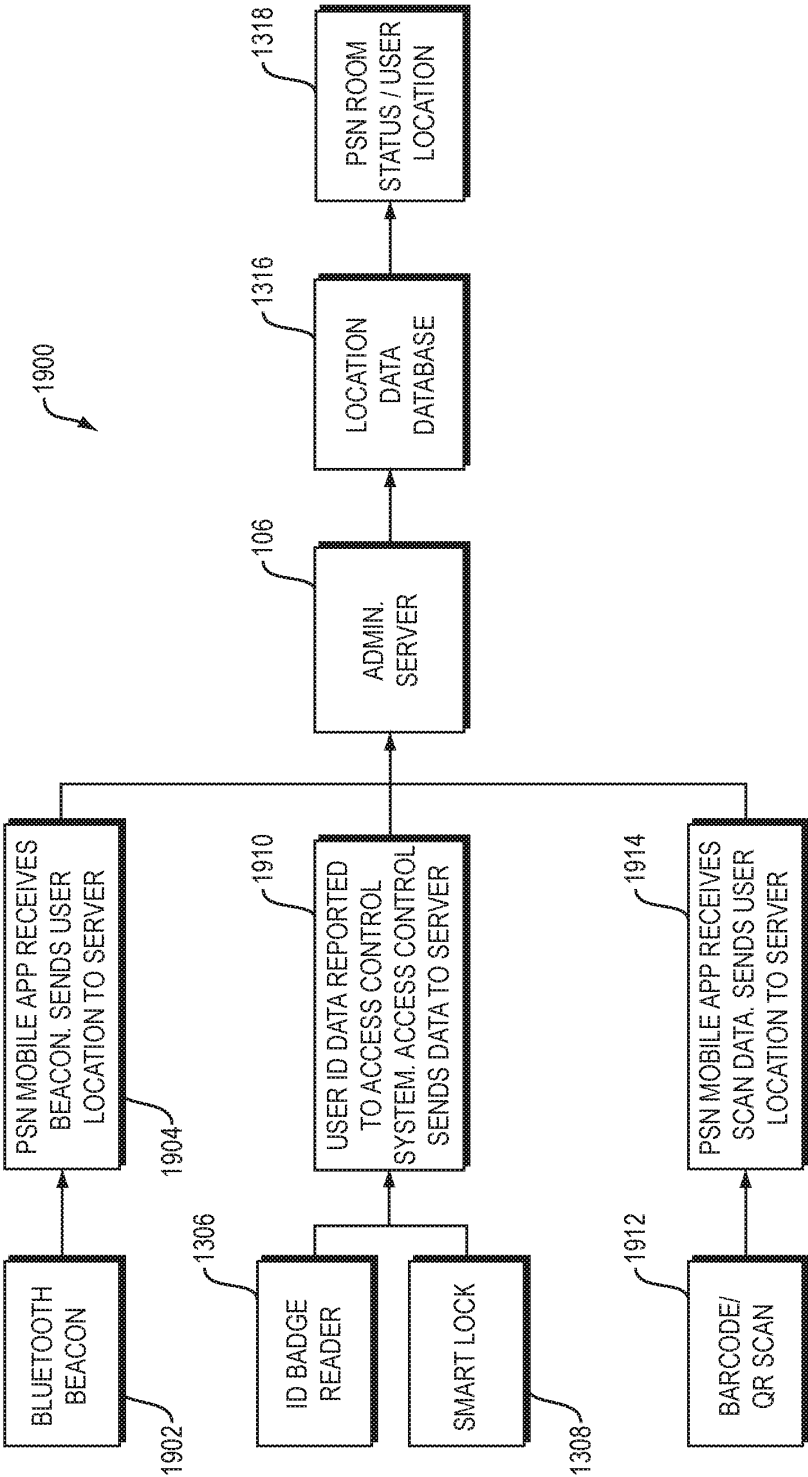


FIG. 19

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2014

1318

2000

	Home	Room Status	Users/Groups	Roles/Permissions	Linked Networks	Archived Messages
--	------	-------------	--------------	-------------------	-----------------	-------------------

Room Status

2002

2004

Setup Room Statuses

Import Rooms

Chase Hall

Room		Status	Count
101	?	Unknown	19
102	?	Unknown	10
201	?	Unknown	21
202	?	Unknown	14
301	?	Unknown	12

2018

2006

Frye Hall

Room		Status	Count
101	?	Unknown	13
102	?	Unknown	17
103	?	Unknown	9
104	?	Unknown	24

2008

Library

Room		Status	Count
Ground Floor	?	Unknown	0
Upstairs	?	Unknown	0

2010

FIG. 20A

2000

	Home	Room Status	Users/Groups	Roles/Permissions	Linked Networks	Archived Messages
--	------	-------------	--------------	-------------------	-----------------	-------------------

Room Status

Room 101

Setup Room Statuses

Room		Name	ID	Date/Time
		Blossom J. Charles	00000006821271866393	11:05 PM
		Brett O. Alvarez	00000006821271673366	11:05 PM
101	?	Melania D. Buck	00000006821271887749	11:05 PM
102	?	Philip U. Kerr	00006860241584079464	11:05 PM
201	?	Sebastian Davis	00000006821271887749	11:05 PM
202	?			
301	?			

2012

Frye Hall

Room	
101	?
102	?
103	?
104	?

2016

Library

Room	
Ground Floor	?

View 1-5 Of 5

Close

FIG. 20B

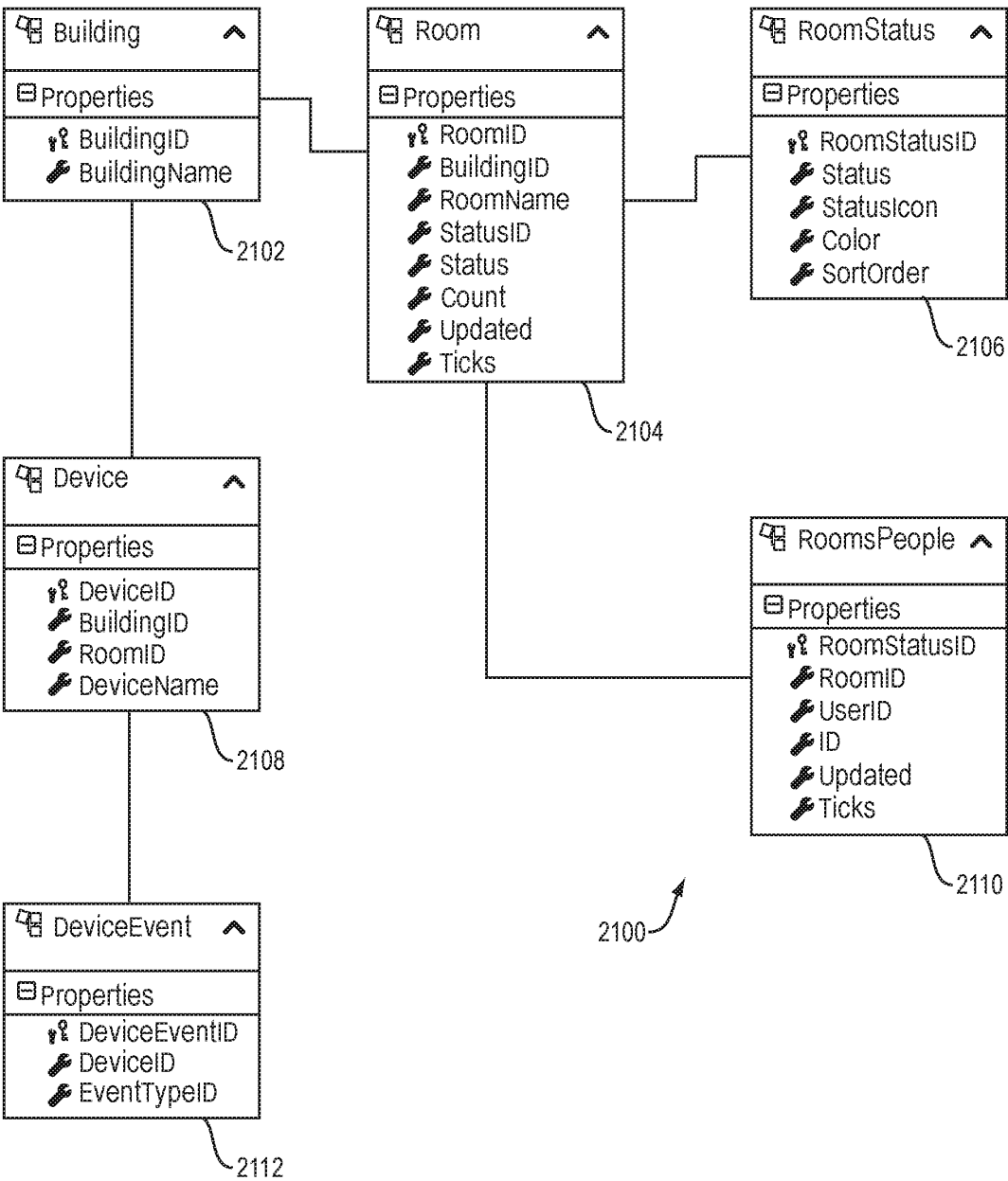


FIG. 21

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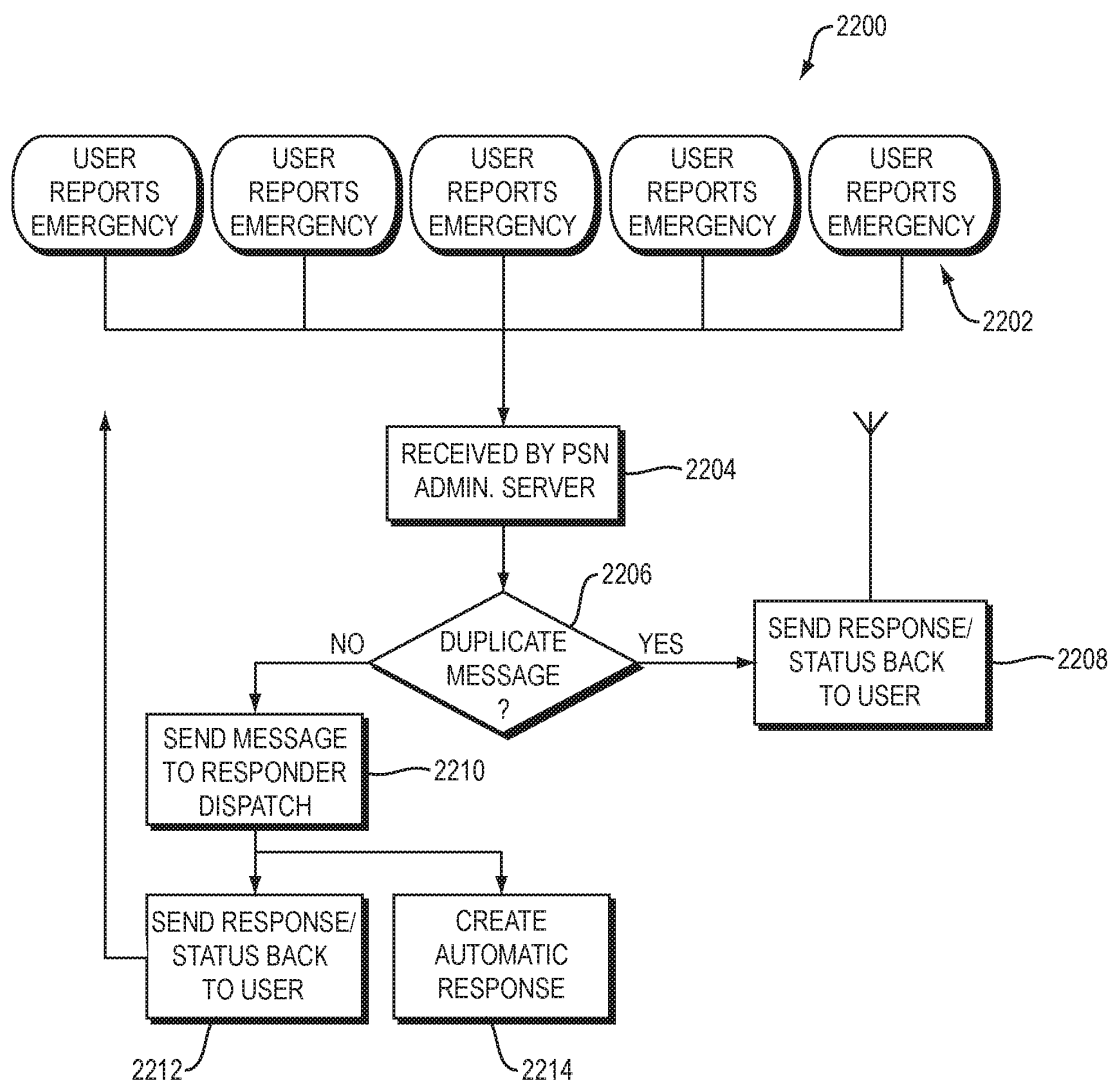


FIG. 22

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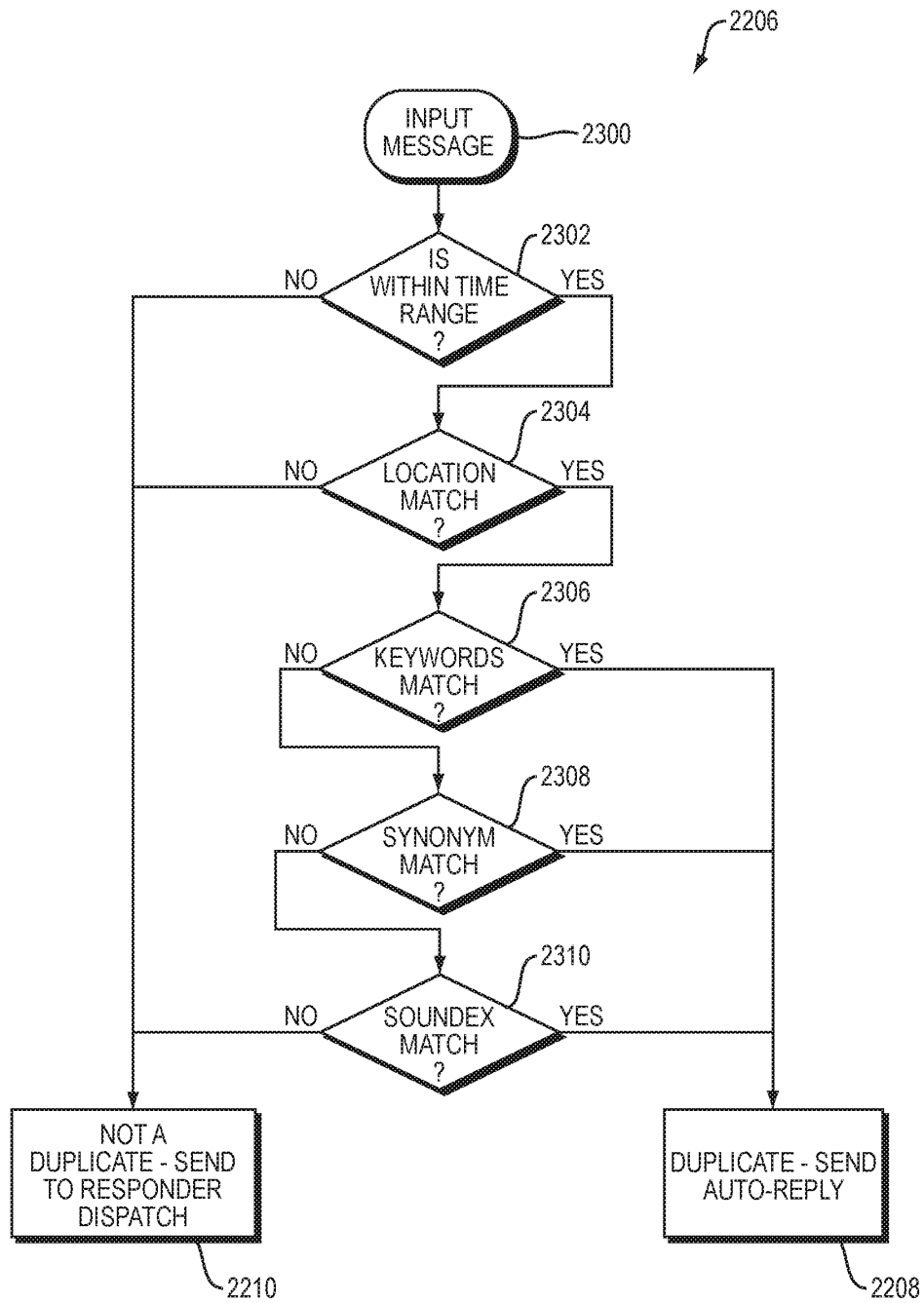


FIG. 23