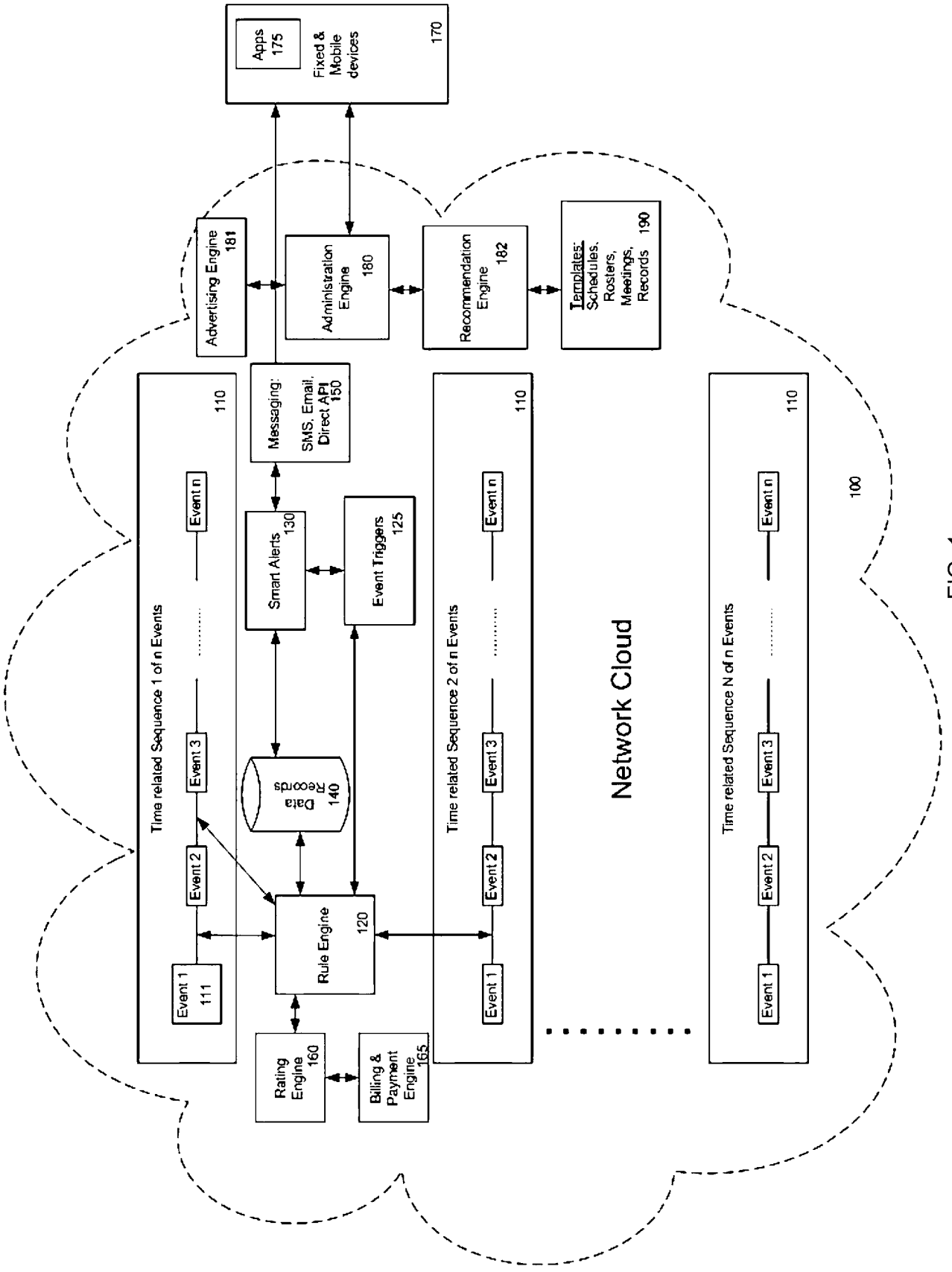
Apps 175
Fixed & Mobile devices 170
Advertising Engine 181
Administration Engine 180
Recommendation Engine 182
Templates: Schedules, Rosters, Meetings, Records 190
Messaging: SMS, Email, Direct API 150
Smart Alerts 130
Event Triggers 125
Data Records 140
Rule Engine 120
Rating Engine 160
Billing & Payment Engine 165
Time related Sequence 1 of n Events 110
Time related Sequence 2 of n Events 110
Time related Sequence N of n Events 110
Event 1 111
Event 2
Event 3
Event n
Network Cloud
100

FIG. 1

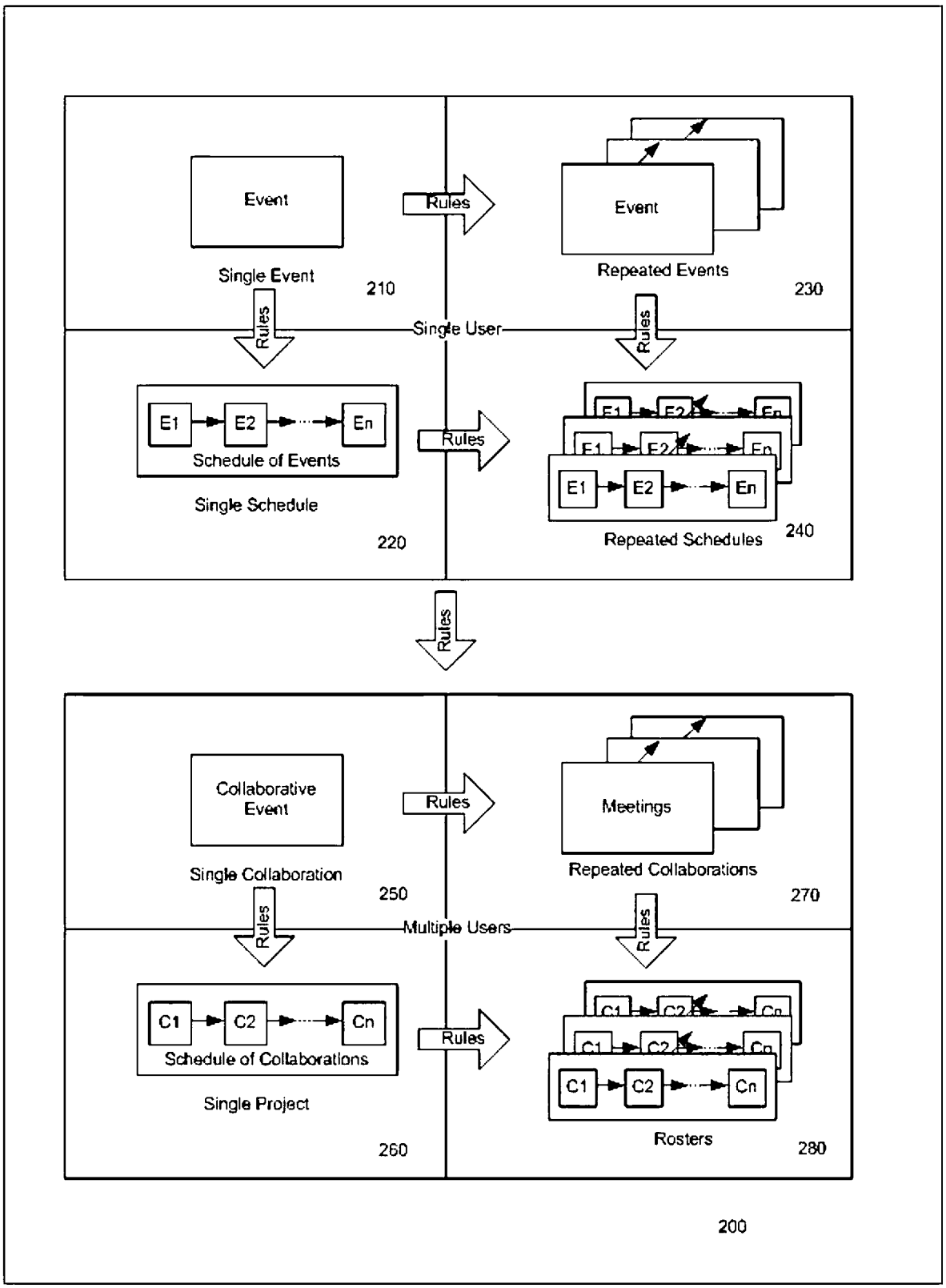
Event
Single Event
210
Rules
Event
Repeated Events
230
Single User
Rules
Rules
E1
E2
En
Schedule of Events
Single Schedule
220
Rules
E1
E2
En
Repeated Schedules
240
Rules
Collaborative Event
Single Collaboration
250
Rules
Meetings
Repeated Collaborations
270
Multiple Users
Rules
Rules
C1
C2
Cn
Schedule of Collaborations
Single Project
260
Rules
C1
C2
Cn
Rosters
280
200

FIG. 2

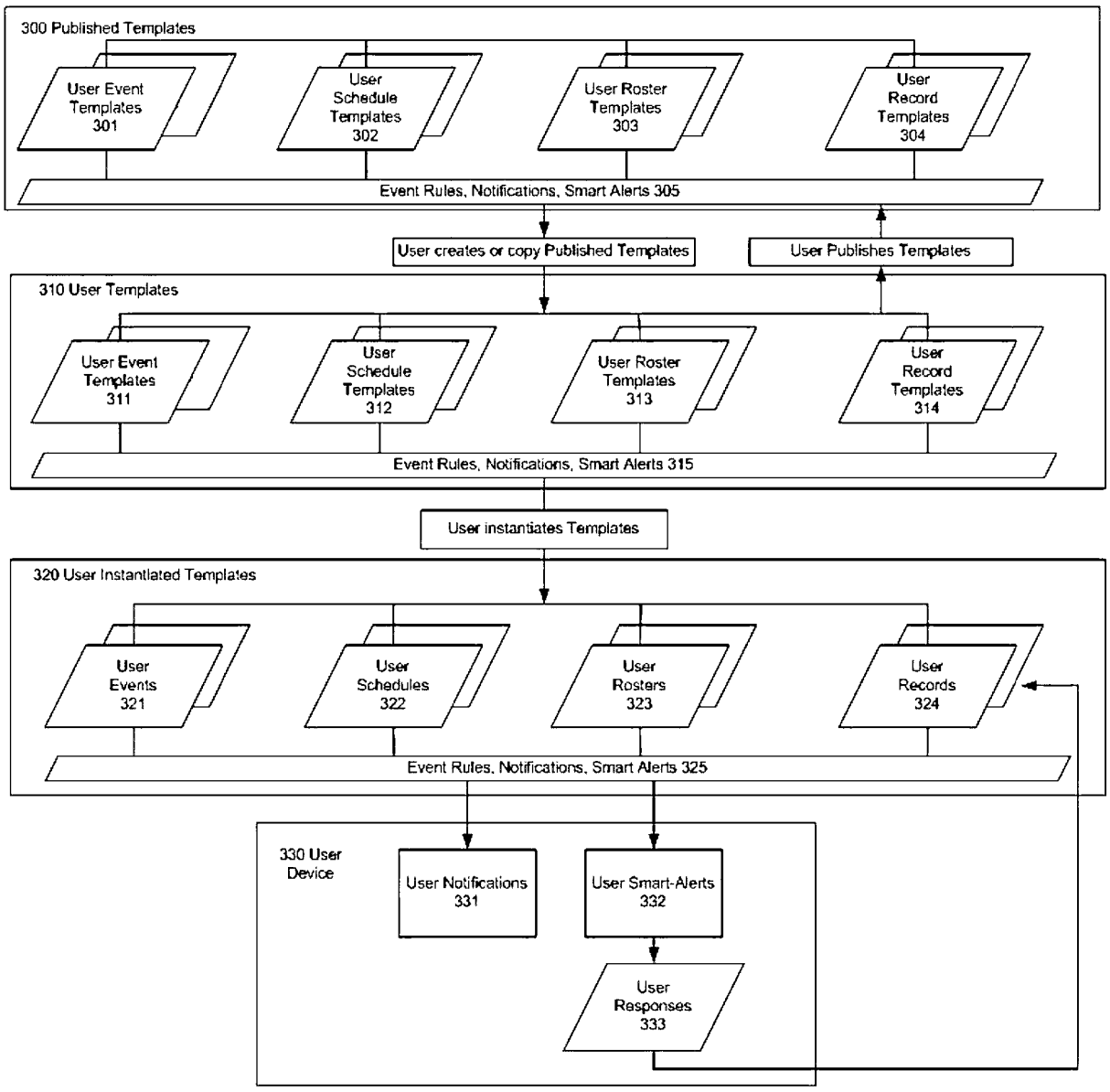
300 Published Templates
User Event Templates 301
User Schedule Templates 302
User Roster Templates 303
User Record Templates 304
Event Rules, Notifications, Smart Alerts 305
User creates or copy Published Templates
User Publishes Templates
310 User Templates
User Event Templates 311
User Schedule Templates 312
User Roster Templates 313
User Record Templates 314
Event Rules, Notifications, Smart Alerts 315
User instantiates Templates
320 User Instantiated Templates
User Events 321
User Schedules 322
User Rosters 323
User Records 324
Event Rules, Notifications, Smart Alerts 325
330 User Device
User Notifications 331
User Smart-Alerts 332
User Responses 333

FIG. 3

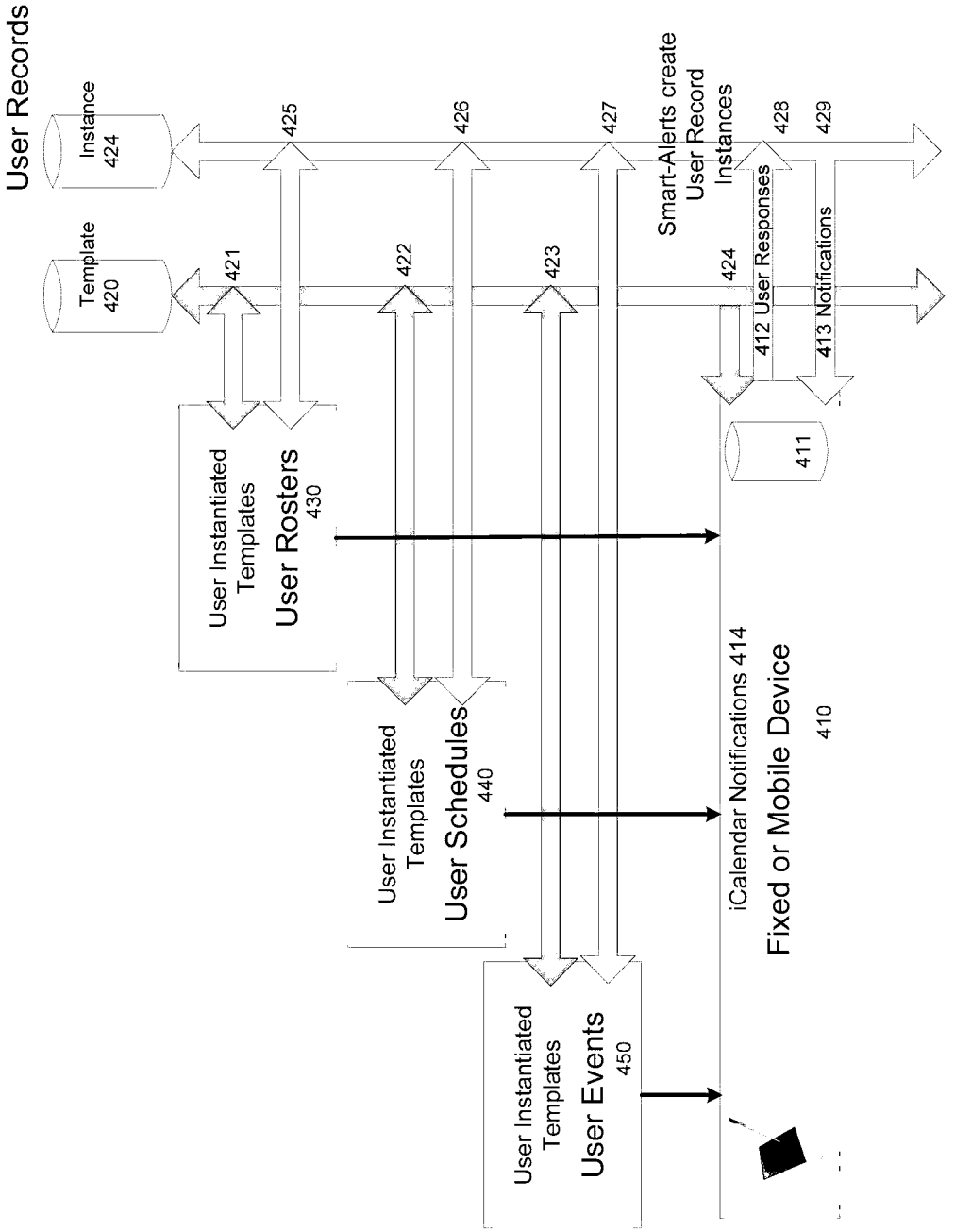
User Records
Instance
424
Template
420
421
425
422
426
423
427
Smart-Alerts create
User Record
Instances
424
428
429
412 User Responses
413 Notifications
411
User Instantiated
Templates
User Rosters
430
User Instantiated
Templates
User Schedules
440
User Instantiated
Templates
User Events
450
iCalendar Notifications 414
Fixed or Mobile Device
410

FIG. 4

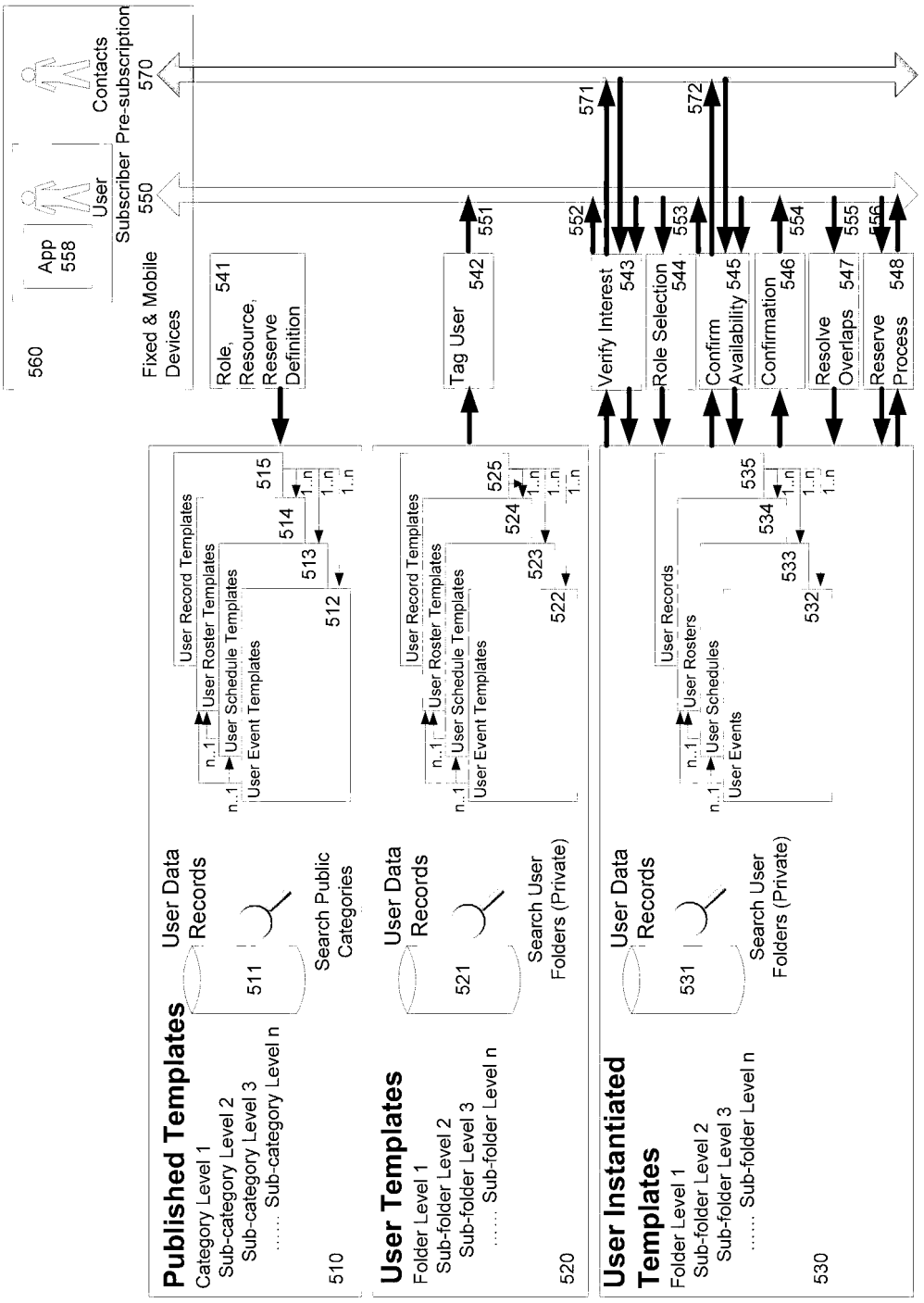
560
App 558
User
Subscriber 550
Contacts
Pre-subscription 570
Fixed & Mobile Devices
Role, Resource, Reserve Definition 541
Tag User 542
Verify Interest 543
Role Selection 544
Confirm Availability 545
Confirmation 546
Resolve Overlaps 547
Reserve Process 548
571
572
552
551
553
554
555
556
Published Templates
Category Level 1
Sub-category Level 2
Sub-category Level 3
..... Sub-category Level n
510
User Data Records
511
Search Public Categories
User Record Templates
User Roster Templates
User Schedule Templates
User Event Templates
512
513
514
515
User Templates
Folder Level 1
Sub-folder Level 2
Sub-folder Level 3
..... Sub-folder Level n
520
User Data Records
521
Search User Folders (Private)
522
523
524
525
User Instantiated Templates
Folder Level 1
Sub-folder Level 2
Sub-folder Level 3
..... Sub-folder Level n
530
User Data Records
531
Search User Folders (Private)
User Records
User Rosters
User Schedules
User Events
532
533
534
535
n..1
1..n

FIG. 5

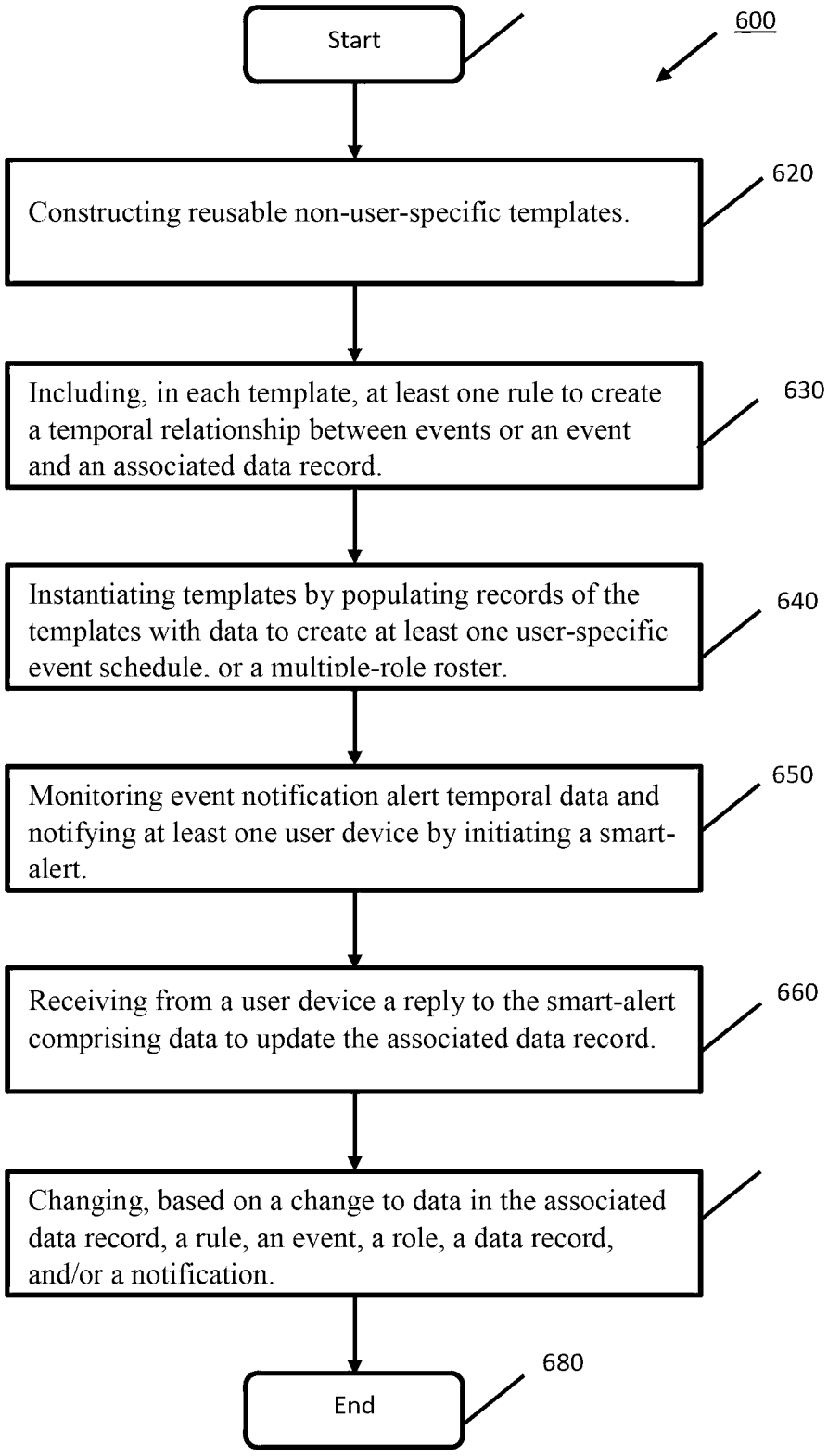
Start
600
Constructing reusable non-user-specific templates.
620
Including, in each template, at least one rule to create a temporal relationship between events or an event and an associated data record.
630
Instantiating templates by populating records of the templates with data to create at least one user-specific event schedule, or a multiple-role roster.
640
Monitoring event notification alert temporal data and notifying at least one user device by initiating a smart-alert.
650
Receiving from a user device a reply to the smart-alert comprising data to update the associated data record.
660
Changing, based on a change to data in the associated data record, a rule, an event, a role, a data record, and/or a notification.
End
680

FIG. 6

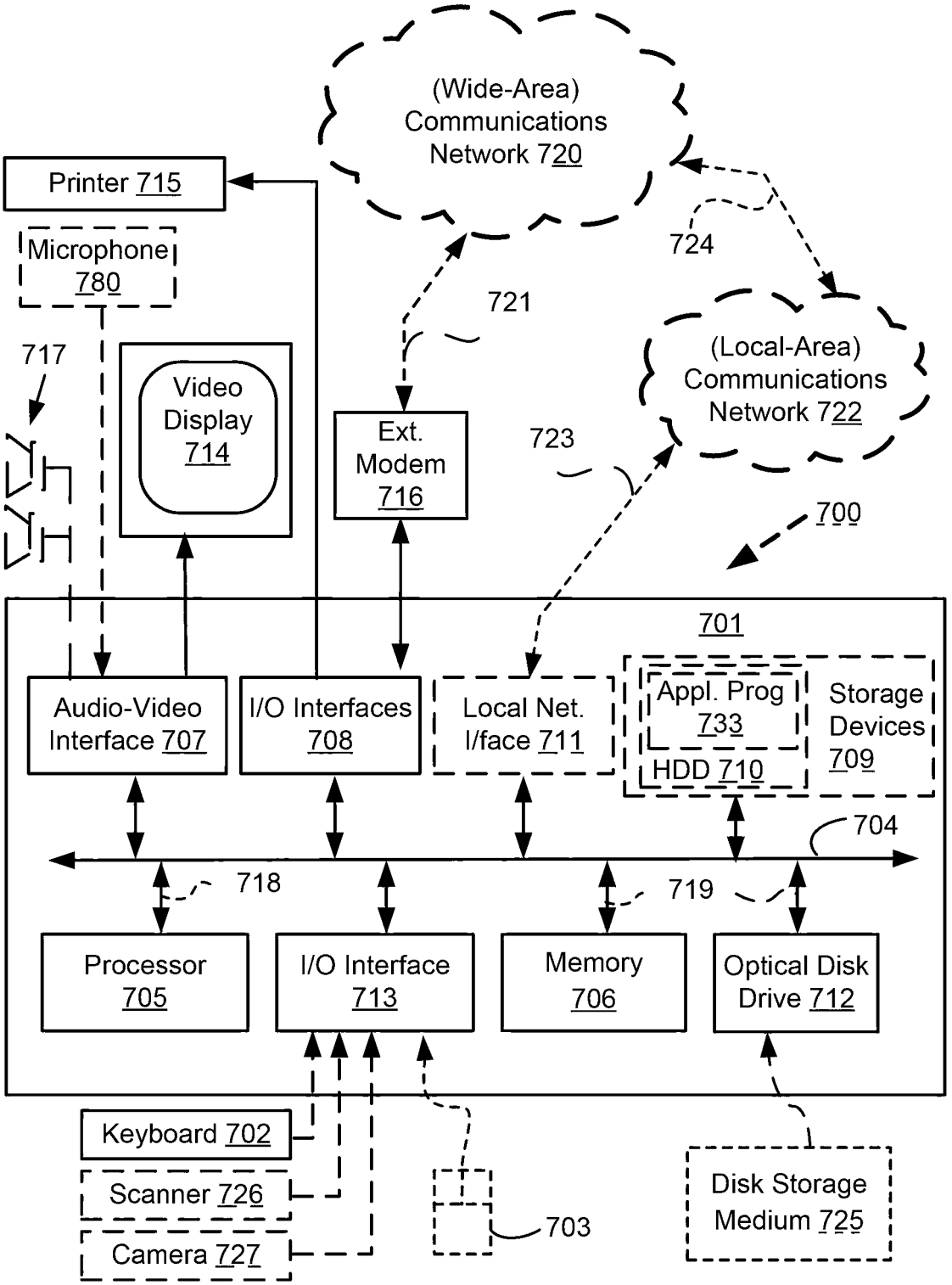
(Wide-Area) Communications Network 720
Printer 715
Microphone 780
724
721
717
Video Display 714
(Local-Area) Communications Network 722
Ext. Modem 716
723
700
701
Audio-Video Interface 707
I/O Interfaces 708
Local Net. I/face 711
Appl. Prog 733
HDD 710
Storage Devices 709
704
718
719
Processor 705
I/O Interface 713
Memory 706
Optical Disk Drive 712
Keyboard 702
Scanner 726
Camera 727
703
Disk Storage Medium 725

FIG. 7A

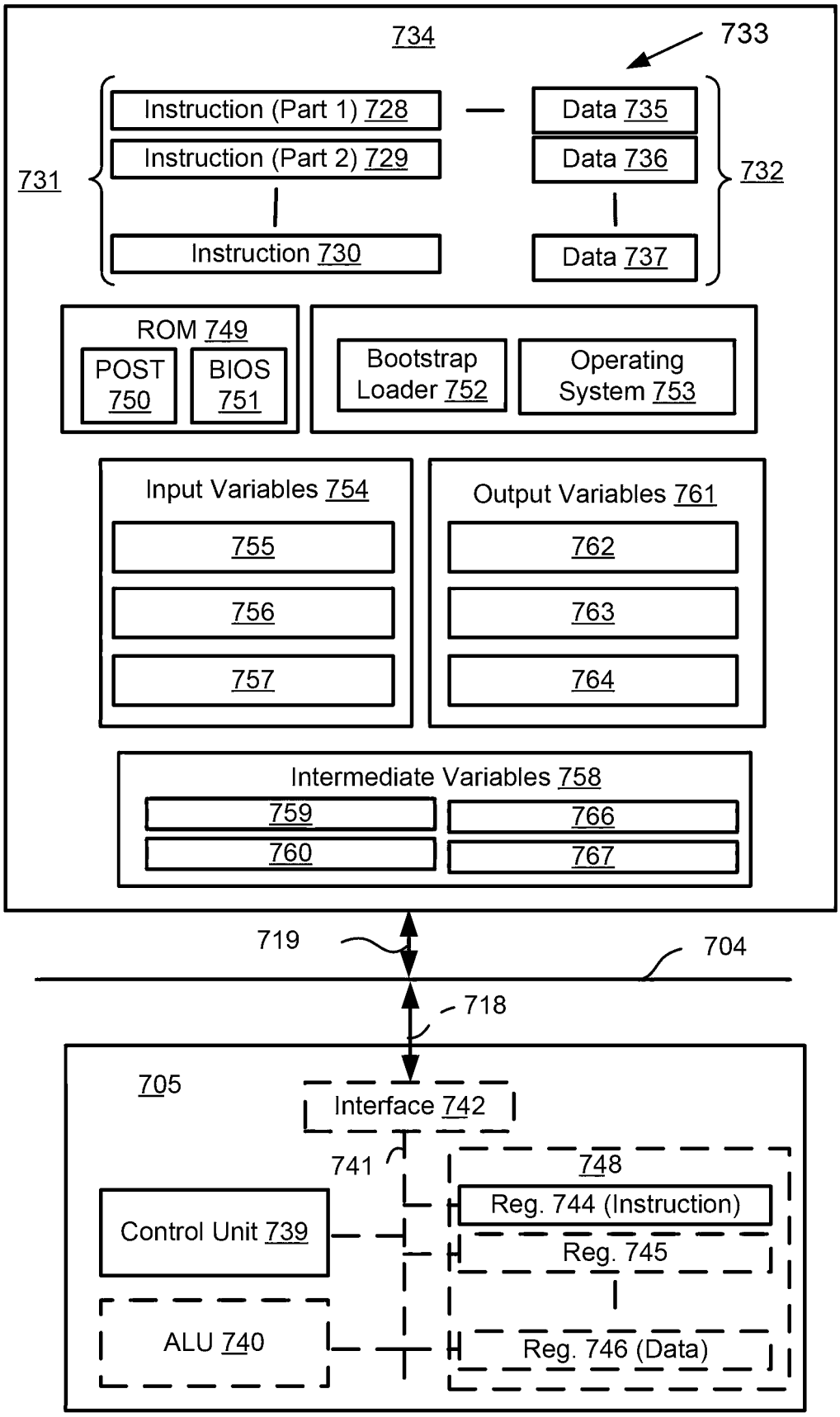
734
733
Instruction (Part 1) 728
Instruction (Part 2) 729
Instruction 730
Data 735
Data 736
Data 737
731
732
ROM 749
POST 750
BIOS 751
Bootstrap Loader 752
Operating System 753
Input Variables 754
755
756
757
Output Variables 761
762
763
764
Intermediate Variables 758
759
760
766
767
719
704
718
705
Interface 742
741
748
Reg. 744 (Instruction)
Reg. 745
Reg. 746 (Data)
Control Unit 739
ALU 740

FIG. 7B