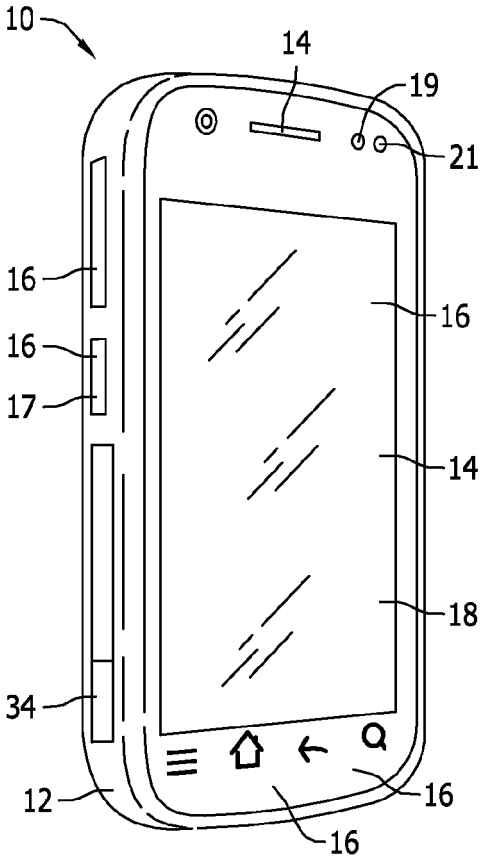


FIG. 1

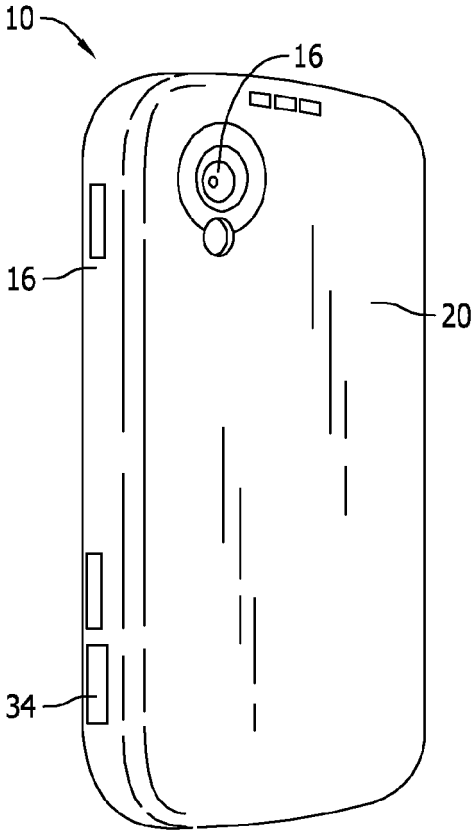


FIG. 2

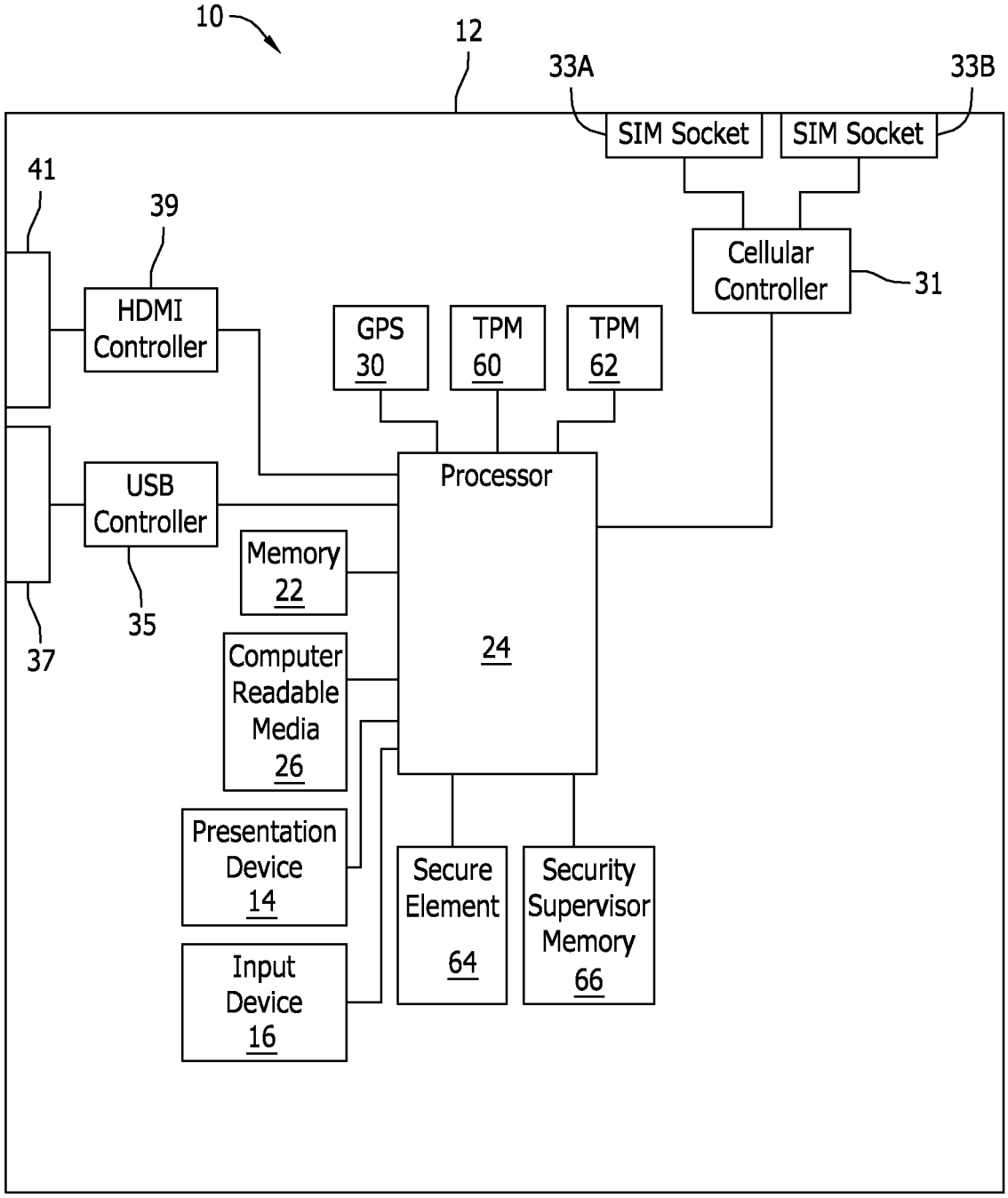

10
12
33A
33B
SIM Socket
SIM Socket
41
39
Cellular Controller
31
HDMI Controller
GPS 30
TPM 60
TPM 62
Processor
USB Controller
Memory 22
35
37
24
Computer Readable Media 26
Presentation Device 14
Secure Element 64
Security Supervisor Memory 66
Input Device 16

FIG. 3

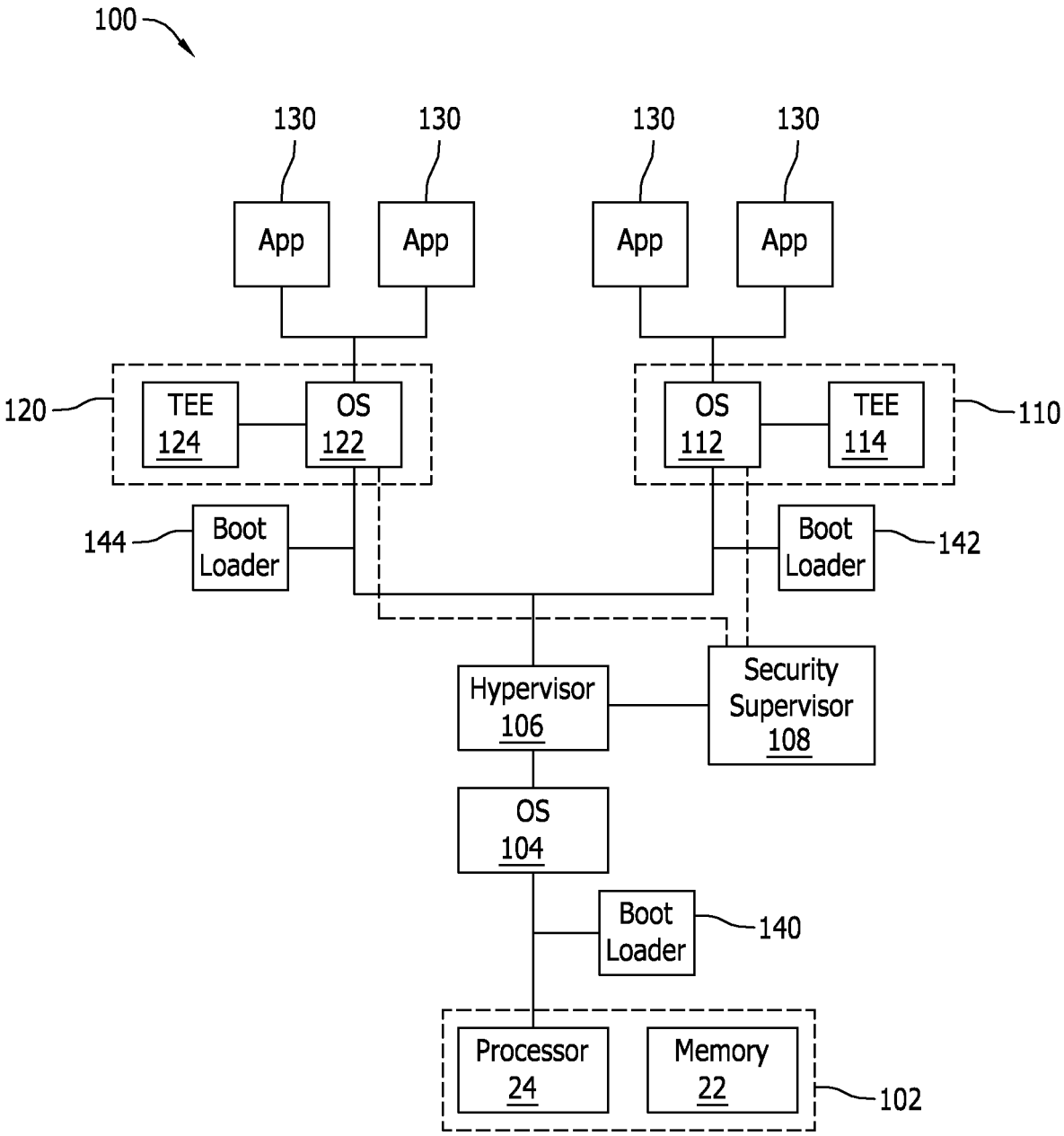

100
130
130
130
130
App
App
App
App
120
TEE
124
OS
122
OS
112
TEE
114
110
144
Boot
Loader
Boot
Loader
142
Hypervisor
106
Security
Supervisor
108
OS
104
Boot
Loader
140
Processor
24
Memory
22
102

FIG. 4

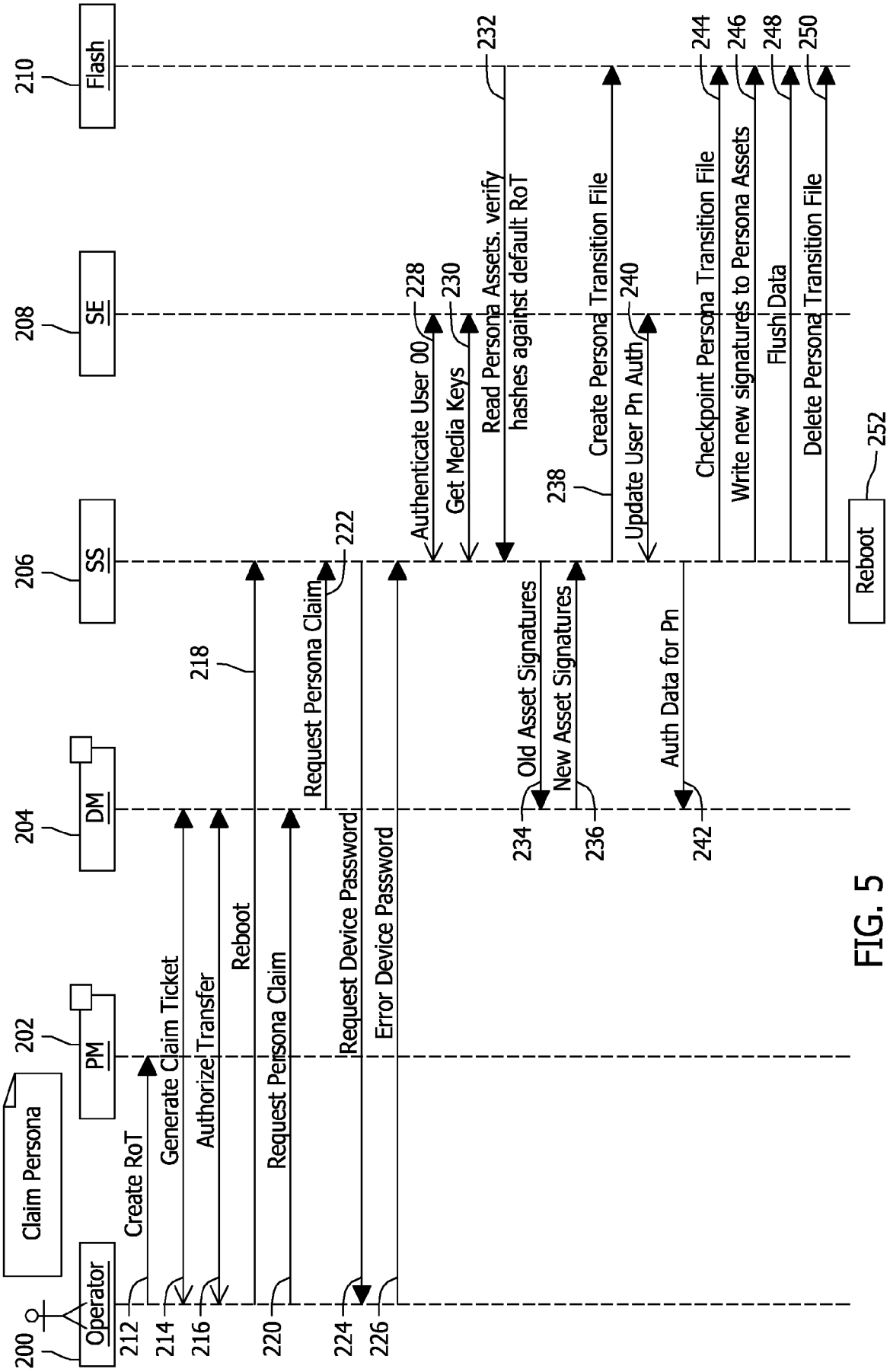

Operator
Claim Persona
PM
DM
SS
SE
Flash
Reboot
200
202
204
206
208
210
252
212 Create RoT
214 Generate Claim Ticket
216 Authorize Transfer
218 Reboot
220 Request Persona Claim
222 Request Persona Claim
224 Request Device Password
226 Error Device Password
228 Authenticate User 00
230 Get Media Keys
232 Read Persona Assets. verify hashes against default RoT
234 Old Asset Signatures
236 New Asset Signatures
238 Create Persona Transition File
240 Update User Pn Auth
242 Auth Data for Pn
244 Checkpoint Persona Transition File
246 Write new signatures to Persona Assets
248 Flush Data
250 Delete Persona Transition File

FIG. 5

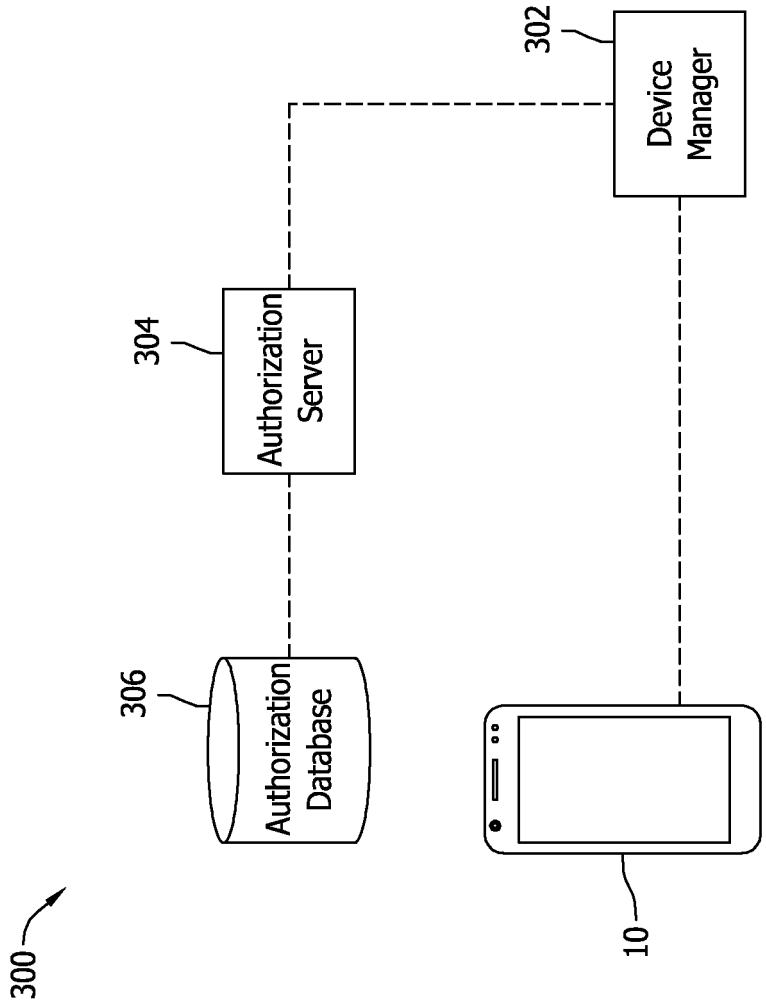

300
306
Authorization Database
304
Authorization Server
302
Device Manager
10

FIG. 6

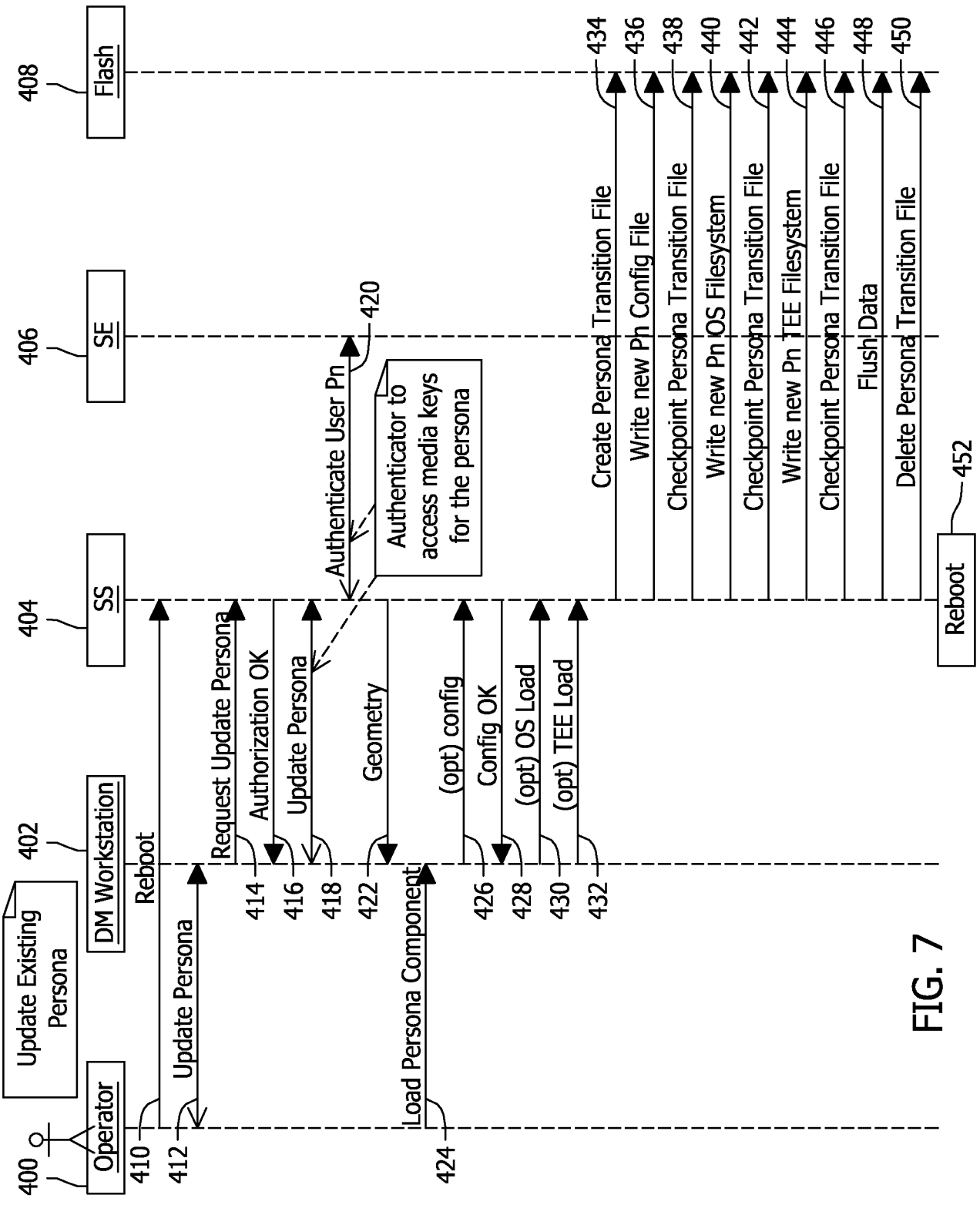

400
Operator
410
412
424
Update Existing Persona
402
DM Workstation
Reboot
Update Persona
404
SS
Request Update Persona
414
Authorization OK
416
Update Persona
418
Geometry
422
406
SE
420
Authenticate User Pn
Authenticator to access media keys for the persona
Load Persona Component
426
(opt) config
428
Config OK
430
(opt) OS Load
432
(opt) TEE Load
408
Flash
434
Create Persona Transition File
436
Write new Pn Config File
438
Checkpoint Persona Transition File
440
Write new Pn OS Filesystem
442
Checkpoint Persona Transition File
444
Write new Pn TEE Filesystem
446
Checkpoint Persona Transition File
448
Flush Data
450
Delete Persona Transition File
452
Reboot

FIG. 7

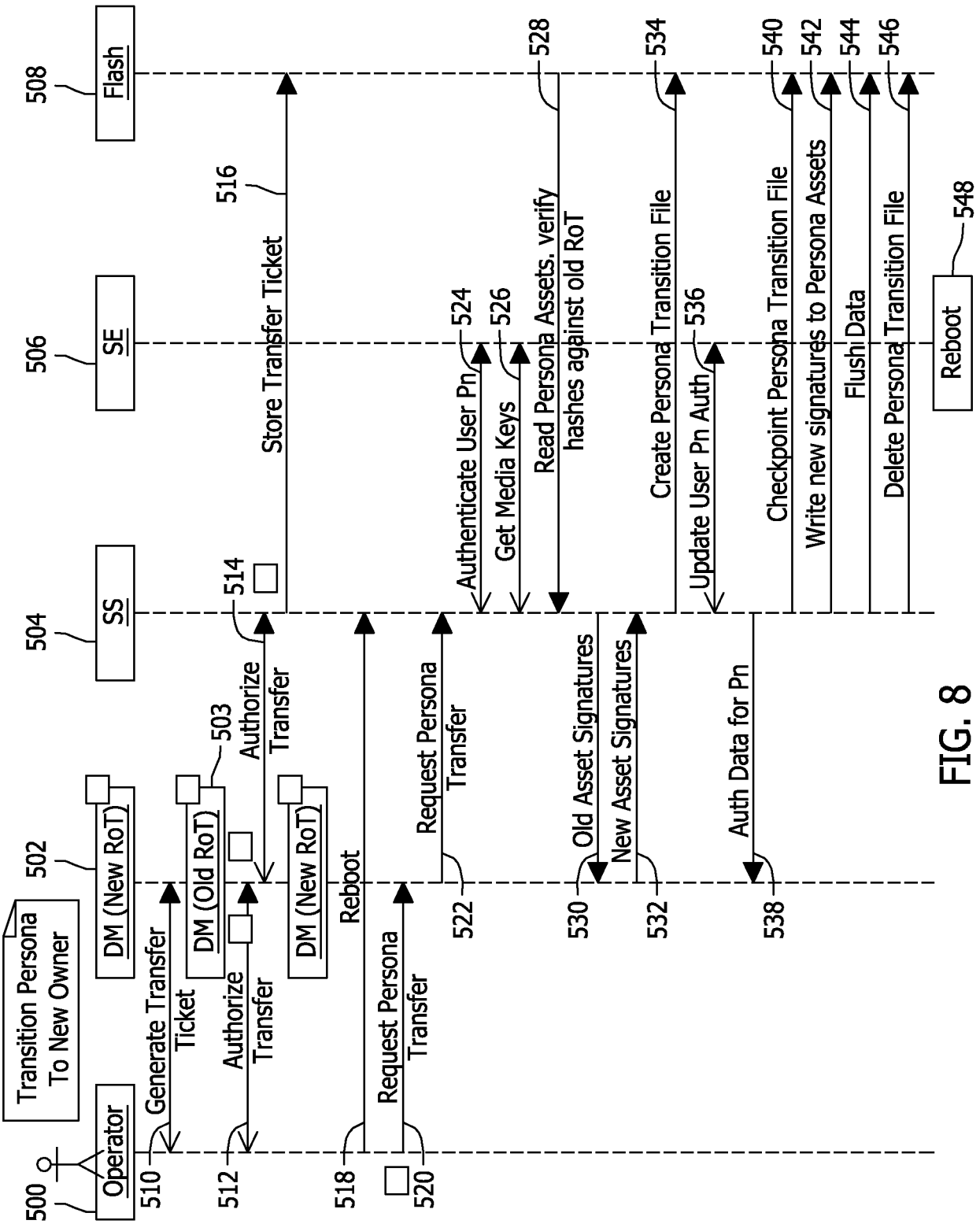

Transition Persona To New Owner
Operator
DM (New RoT)
DM (Old RoT)
DM (New RoT)
SS
SE
Flash
Reboot
500
502
503
504
506
508
510
512
514
516
518
520
522
524
526
528
530
532
534
536
538
540
542
544
546
548
Generate Transfer Ticket
Authorize Transfer
Authorize Transfer
Reboot
Request Persona Transfer
Request Persona Transfer
Store Transfer Ticket
Authenticate User Pn
Get Media Keys
Read Persona Assets, verify hashes against old RoT
Old Asset Signatures
New Asset Signatures
Create Persona Transition File
Update User Pn Auth
Auth Data for Pn
Checkpoint Persona Transition File
Write new signatures to Persona Assets
Flush Data
Delete Persona Transition File

FIG. 8

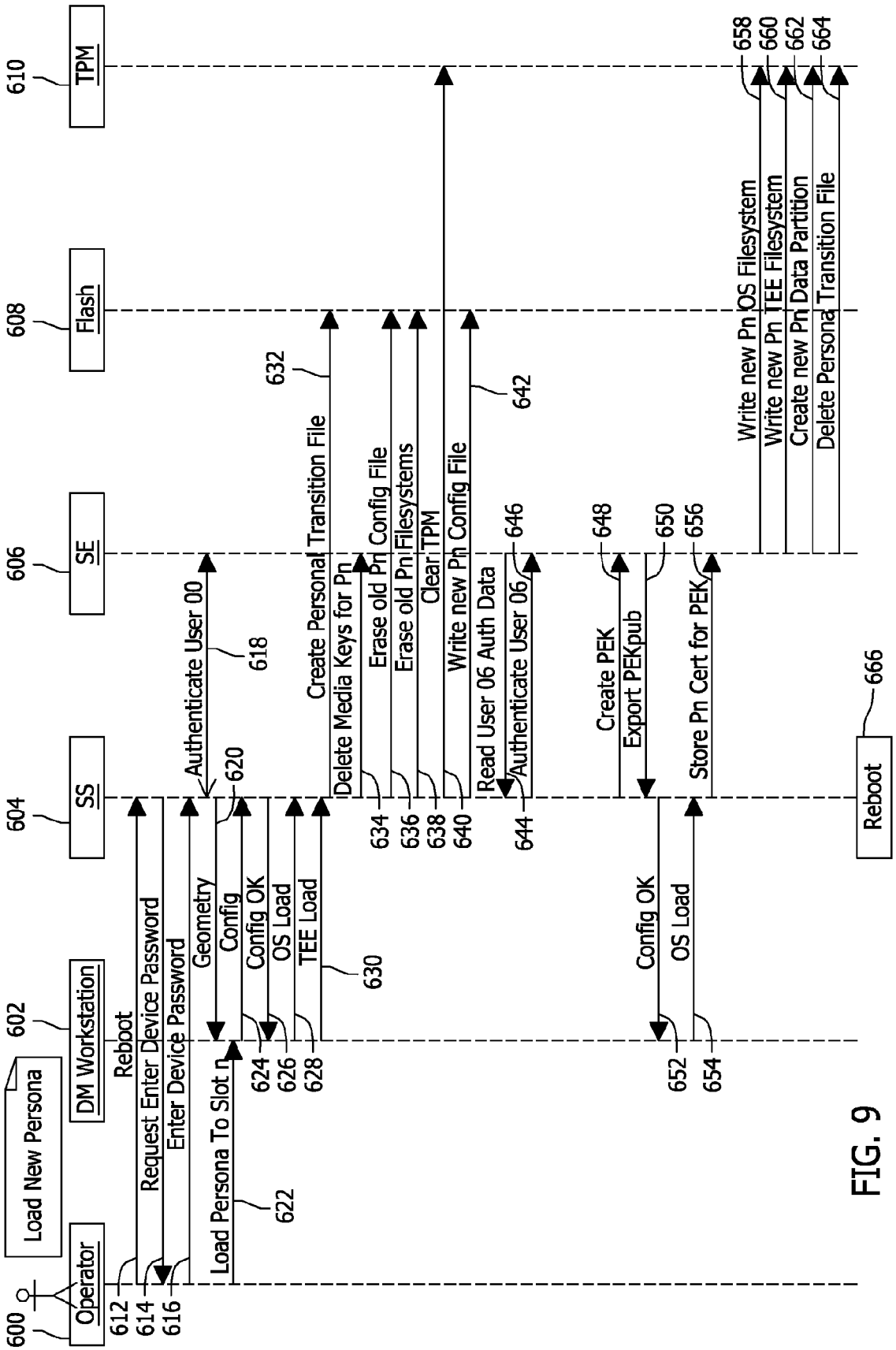

600
Operator
Load New Persona
602
DM Workstation
604
SS
606
SE
608
Flash
610
TPM
612
Reboot
614
Request Enter Device Password
616
Enter Device Password
618
Authenticate User 00
620
Geometry
622
Load Persona To Slot n
624
Config
626
Config OK
628
OS Load
630
TEE Load
632
Create Personal Transition File
634
Delete Media Keys for Pn
636
Erase old Pn Config File
638
Erase old Pn Filesystems
640
Clear TPM
642
Write new Pn Config File
644
Read User 06 Auth Data
646
Authenticate User 06
648
Create PEK
650
Export PEKpub
652
Config OK
654
OS Load
656
Store Pn Cert for PEK
658
Write new Pn OS Filesystem
660
Write new Pn TEE Filesystem
662
Create new Pn Data Partition
664
Delete Persona Transition File
666
Reboot

FIG. 9