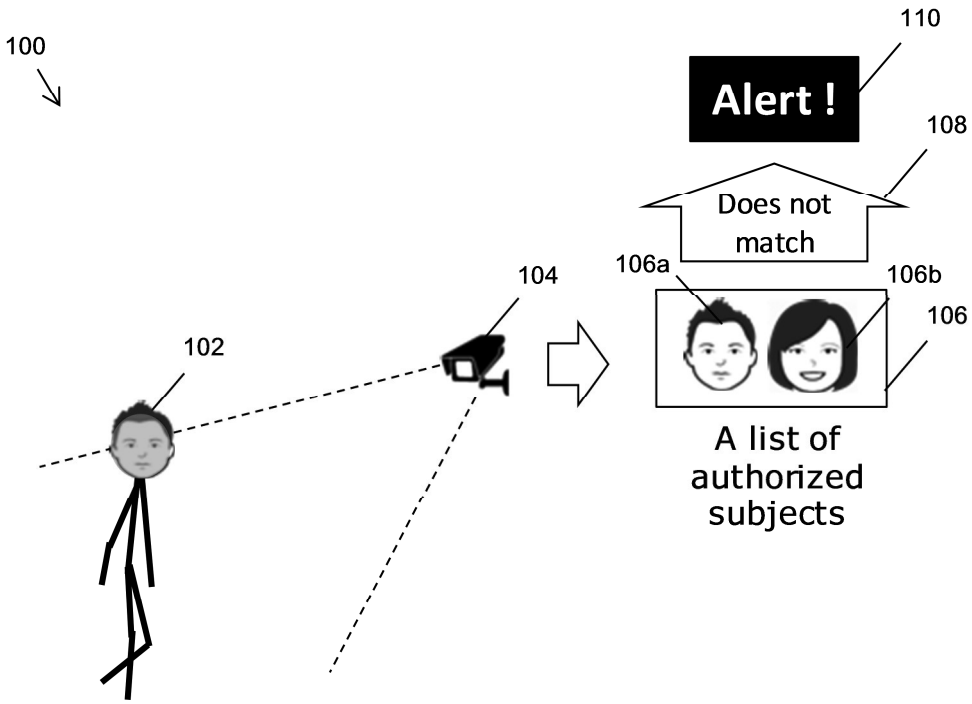
100
110
Alert !
108
Does not match
106a
106b
106
104
102
A list of authorized subjects

Figure 1A

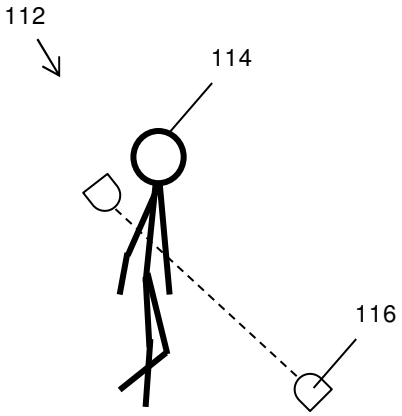

Figure 1B

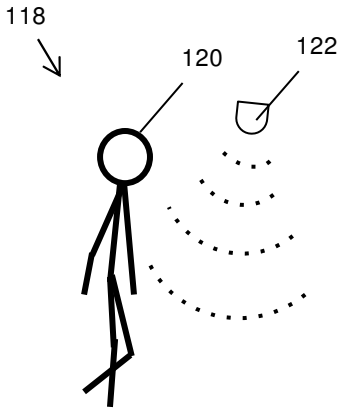

Figure 1C

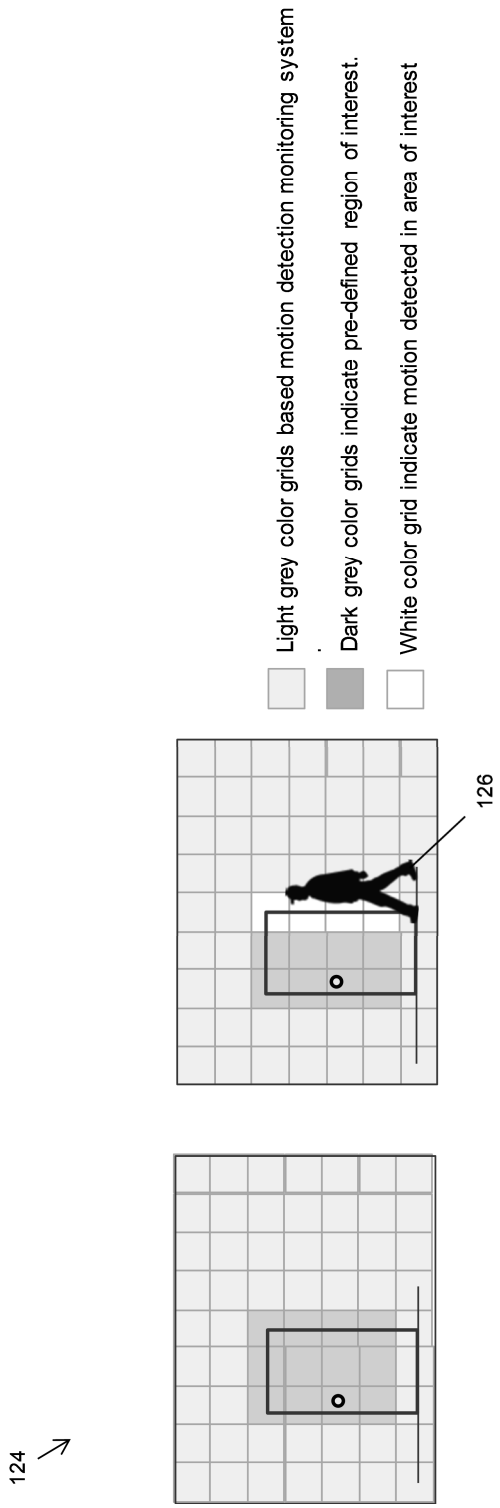
Light grey color grids based motion detection monitoring system
Dark grey color grids indicate pre-defined region of interest.
White color grid indicate motion detected in area of interest
126
124

Figure 1D

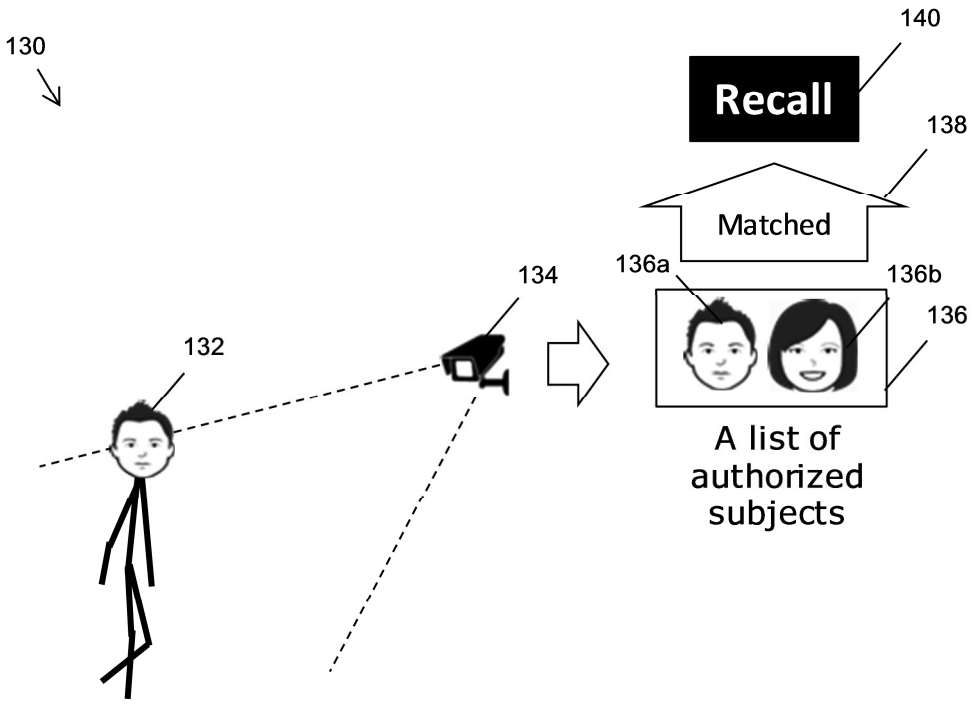
130
140
Recall
138
Matched
136a
134
136b
136
132
A list of
authorized
subjects

Figure 1E

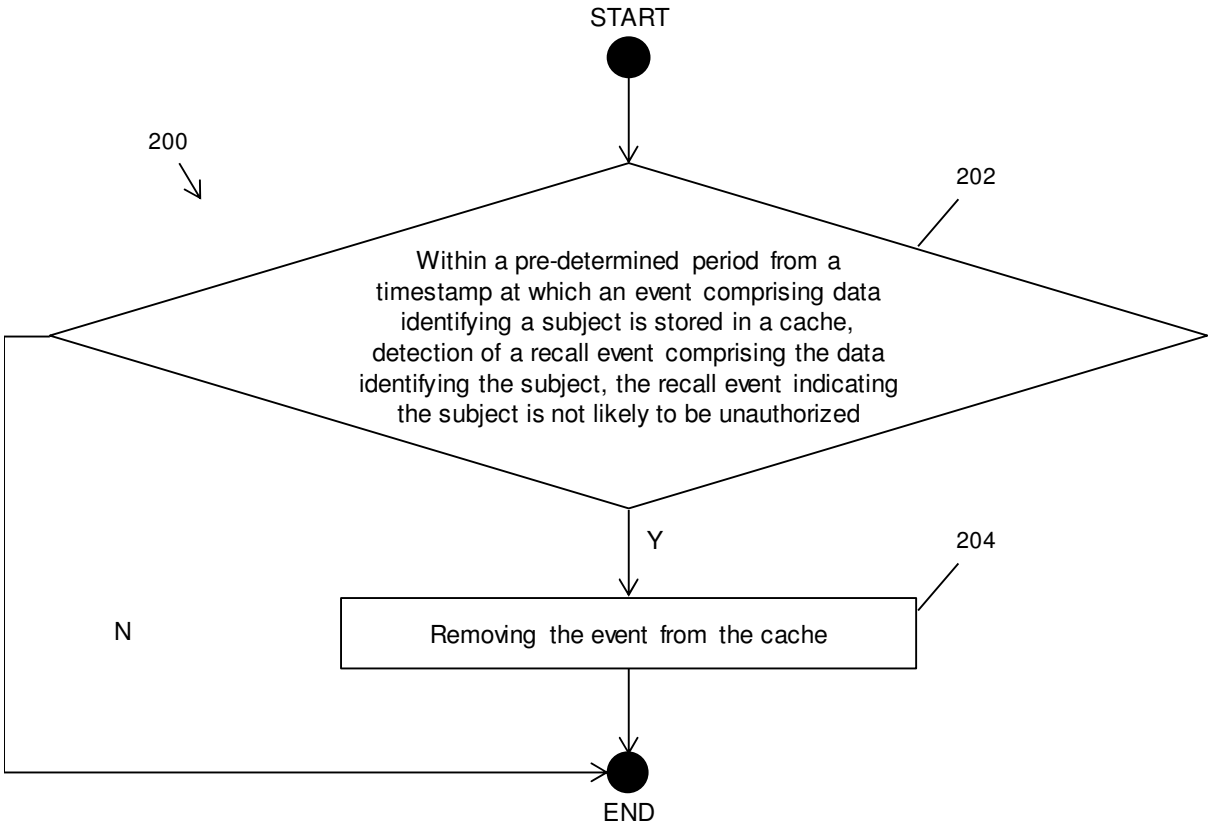
START
200
202
Within a pre-determined period from a timestamp at which an event comprising data identifying a subject is stored in a cache, detection of a recall event comprising the data identifying the subject, the recall event indicating the subject is not likely to be unauthorized
Y
204
N
Removing the event from the cache
END

Figure 2

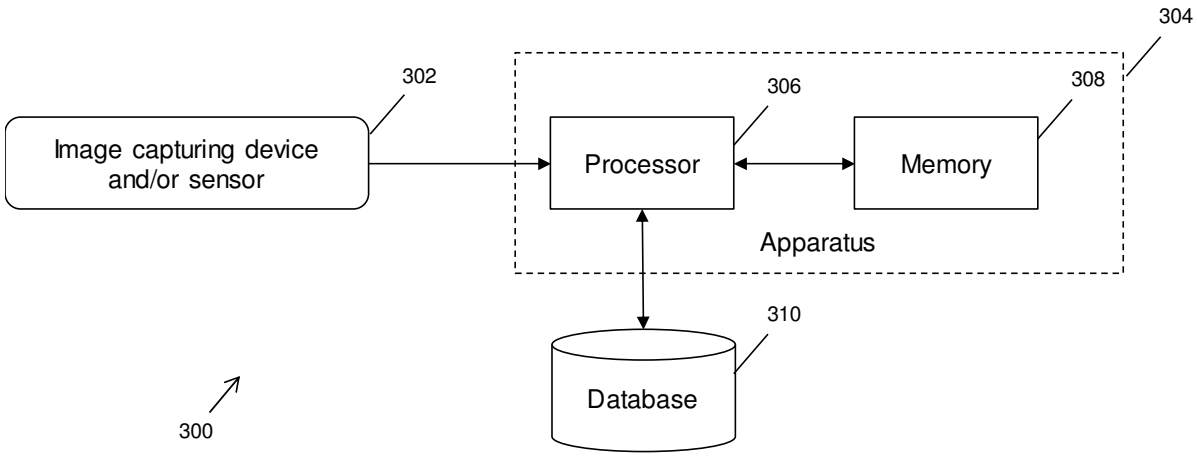
304
302
306
308
Image capturing device and/or sensor
Processor
Memory
Apparatus
310
Database
300

Figure 3

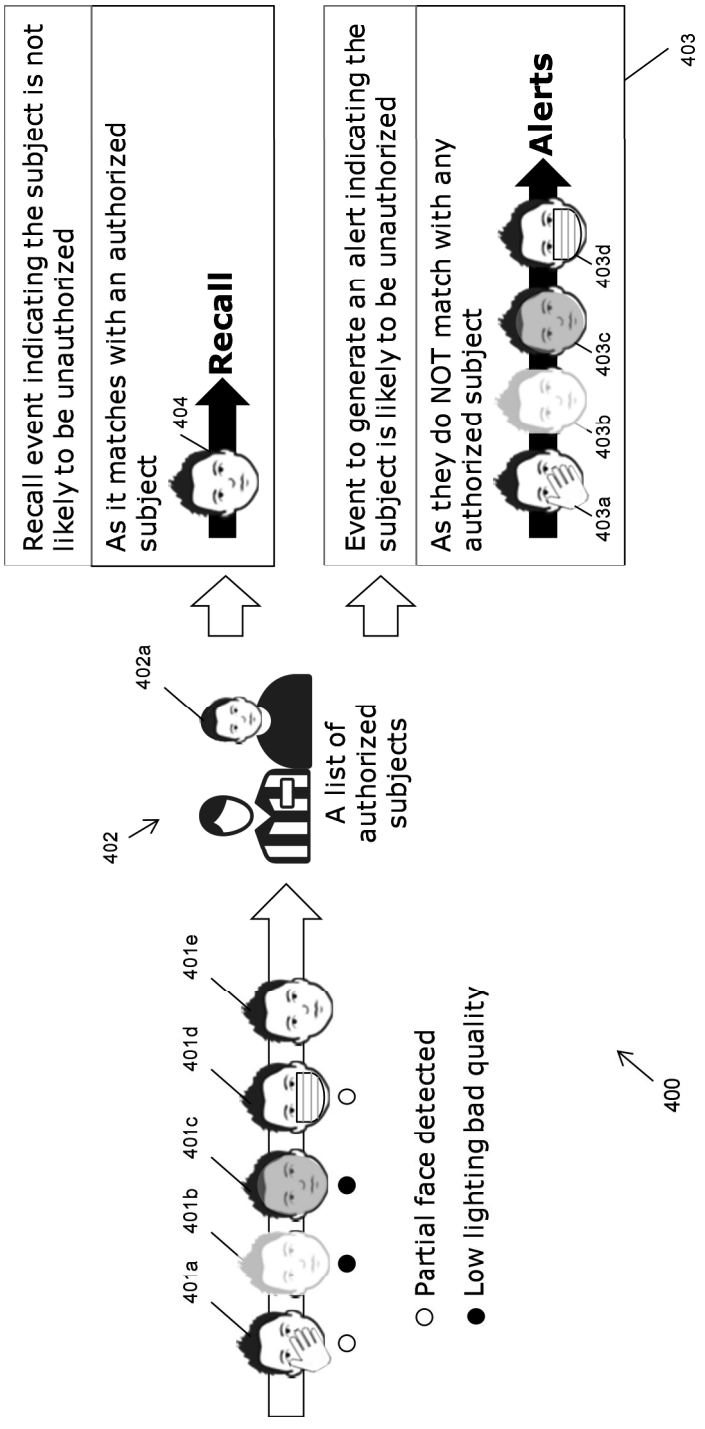
Recall event indicating the subject is not likely to be unauthorized
As it matches with an authorized subject
404
Recall
Event to generate an alert indicating the subject is likely to be unauthorized
As they do NOT match with any authorized subject
Alerts
403
403a
403b
403c
403d
402
402a
A list of authorized subjects
401a
401b
401c
401d
401e
○ Partial face detected
● Low lighting bad quality
400

Figure 4

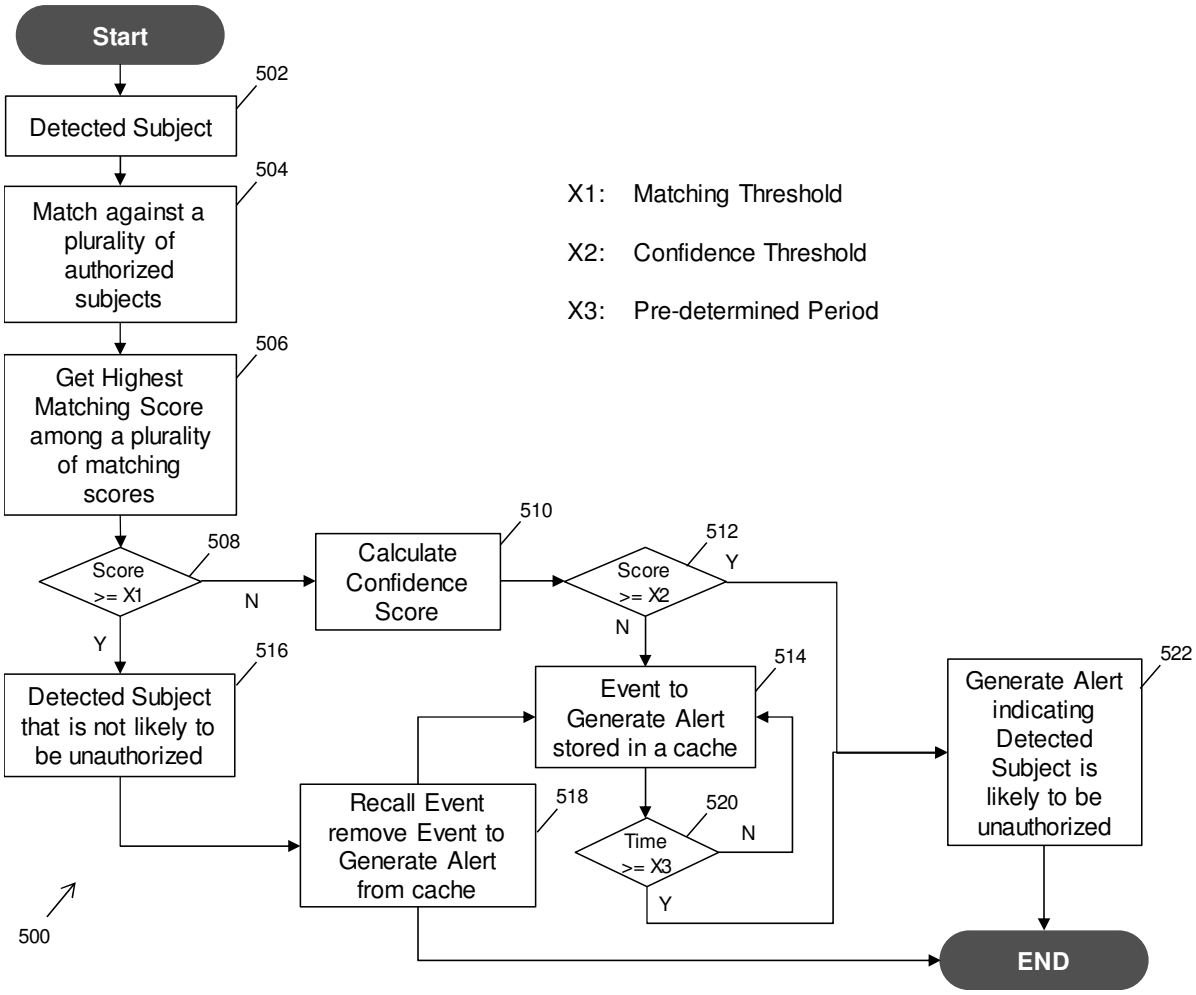
Start
502
Detected Subject
504
Match against a plurality of authorized subjects
506
Get Highest Matching Score among a plurality of matching scores
508
Score >= X1
N
Y
510
Calculate Confidence Score
512
Score >= X2
Y
N
514
Event to Generate Alert stored in a cache
516
Detected Subject that is not likely to be unauthorized
518
Recall Event remove Event to Generate Alert from cache
520
Time >= X3
N
Y
522
Generate Alert indicating Detected Subject is likely to be unauthorized
END
500
X1: Matching Threshold
X2: Confidence Threshold
X3: Pre-determined Period

Figure 5

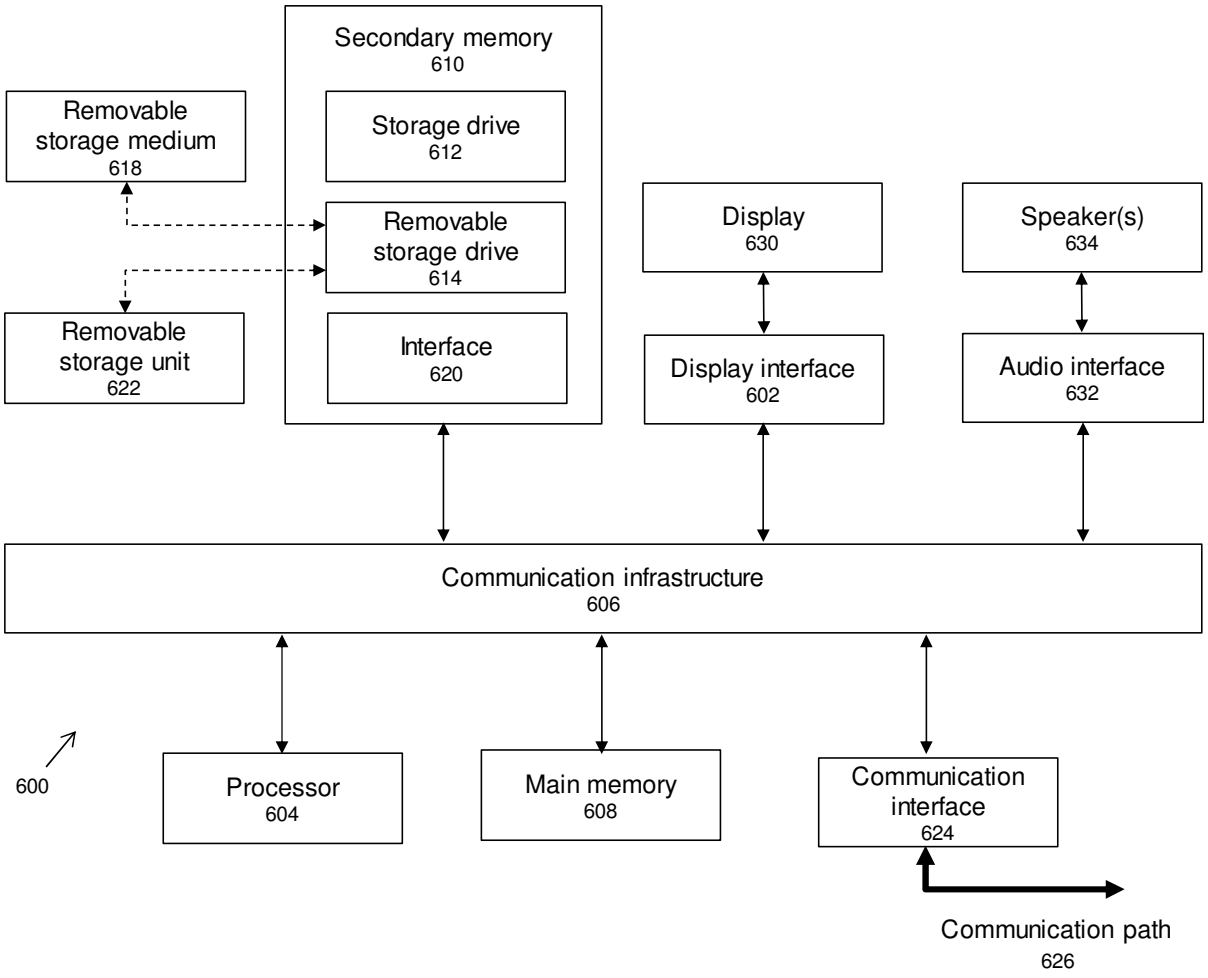
Secondary memory
610
Removable storage medium
618
Storage drive
612
Removable storage drive
614
Removable storage unit
622
Interface
620
Display
630
Speaker(s)
634
Display interface
602
Audio interface
632
Communication infrastructure
606
600
Processor
604
Main memory
608
Communication interface
624
Communication path
626

Figure 6