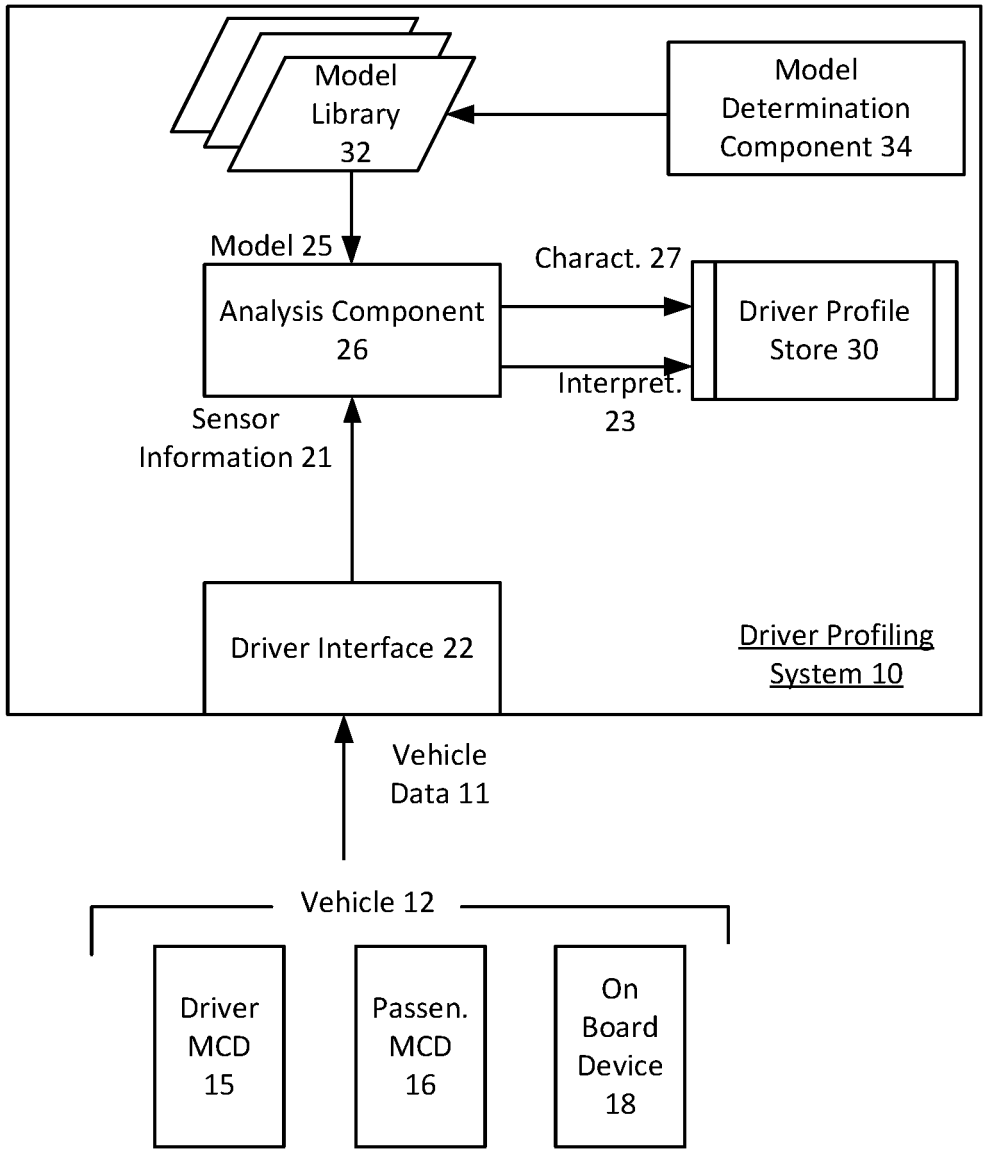

Model Library 32
Model Determination Component 34
Model 25
Charact. 27
Analysis Component 26
Driver Profile Store 30
Interpret. 23
Sensor Information 21
Driver Interface 22
Driver Profiling System 10
Vehicle Data 11
Vehicle 12
Driver MCD 15
Passen. MCD 16
On Board Device 18

FIG. 1A

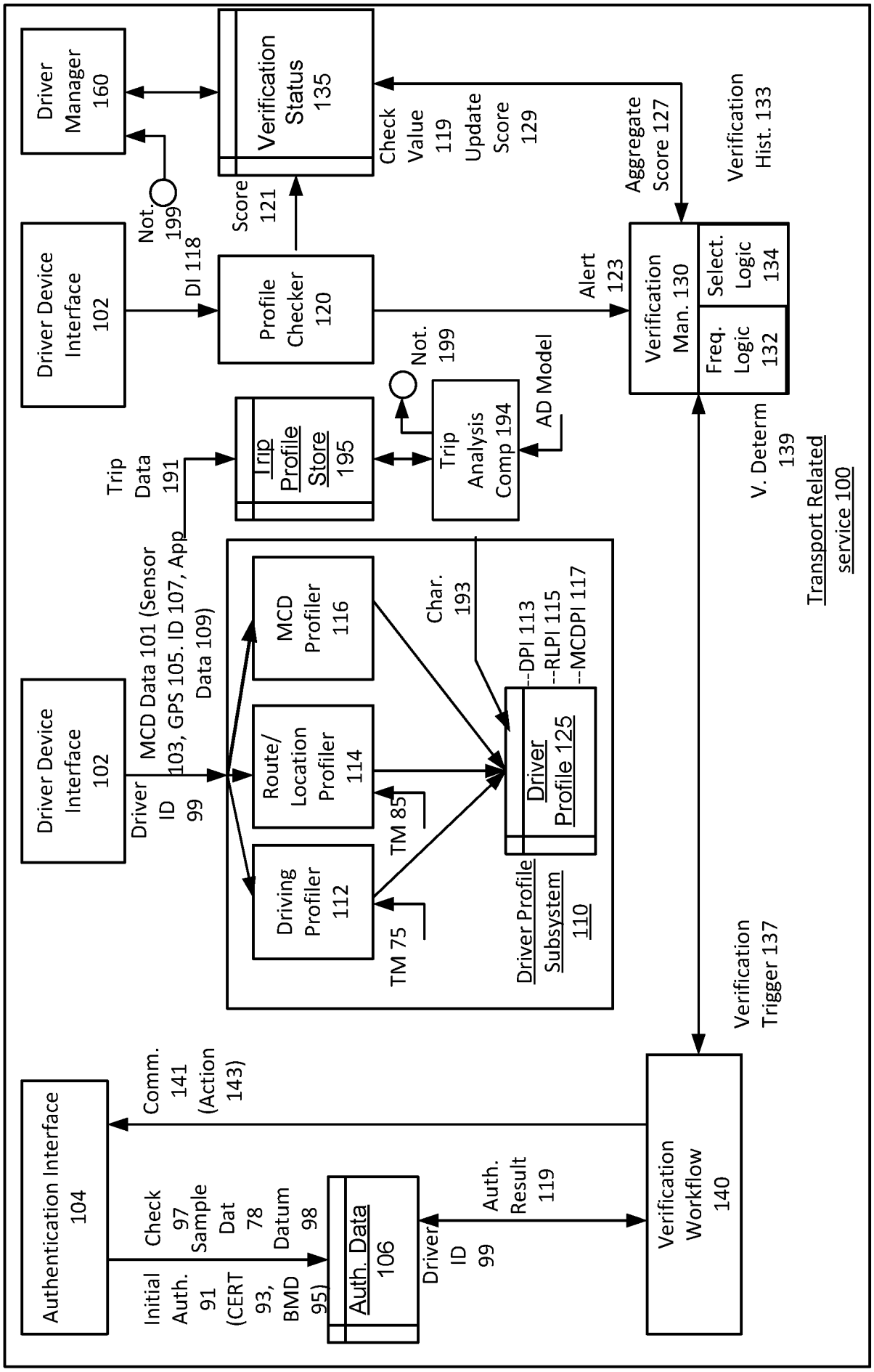

Transport Related service 100
Driver Manager 160
Verification Status 135
Driver Device Interface 102
Not. 199
DI 118
Score 121
Profile Checker 120
Check Value 119
Update Score 129
Aggregate Score 127
Verification Hist. 133
Alert 123
Verification Man. 130
Select. Logic 134
Freq. Logic 132
V. Determ 139
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Trip Profile Store 195
Trip Analysis Comp 194
AD Model
Driver Device Interface 102
MCD Data 101 (Sensor 103, GPS 105. ID 107, App Data 109)
Driver ID 99
MCD Profiler 116
Route/ Location Profiler 114
Driving Profiler 112
TM 85
TM 75
Char. 193
--DPI 113
--RLPI 115
--MCDPI 117
Driver Profile 125
Driver Profile Subsystem 110
Authentication Interface 104
Comm. 141 (Action 143)
Initial Auth. 91 (CERT 93, BMD 95)
Check 97 Sample Dat 78 Datum 98
Auth. Data 106
Driver ID 99
Auth. Result 119
Verification Workflow 140
Verification Trigger 137

FIG. 1B

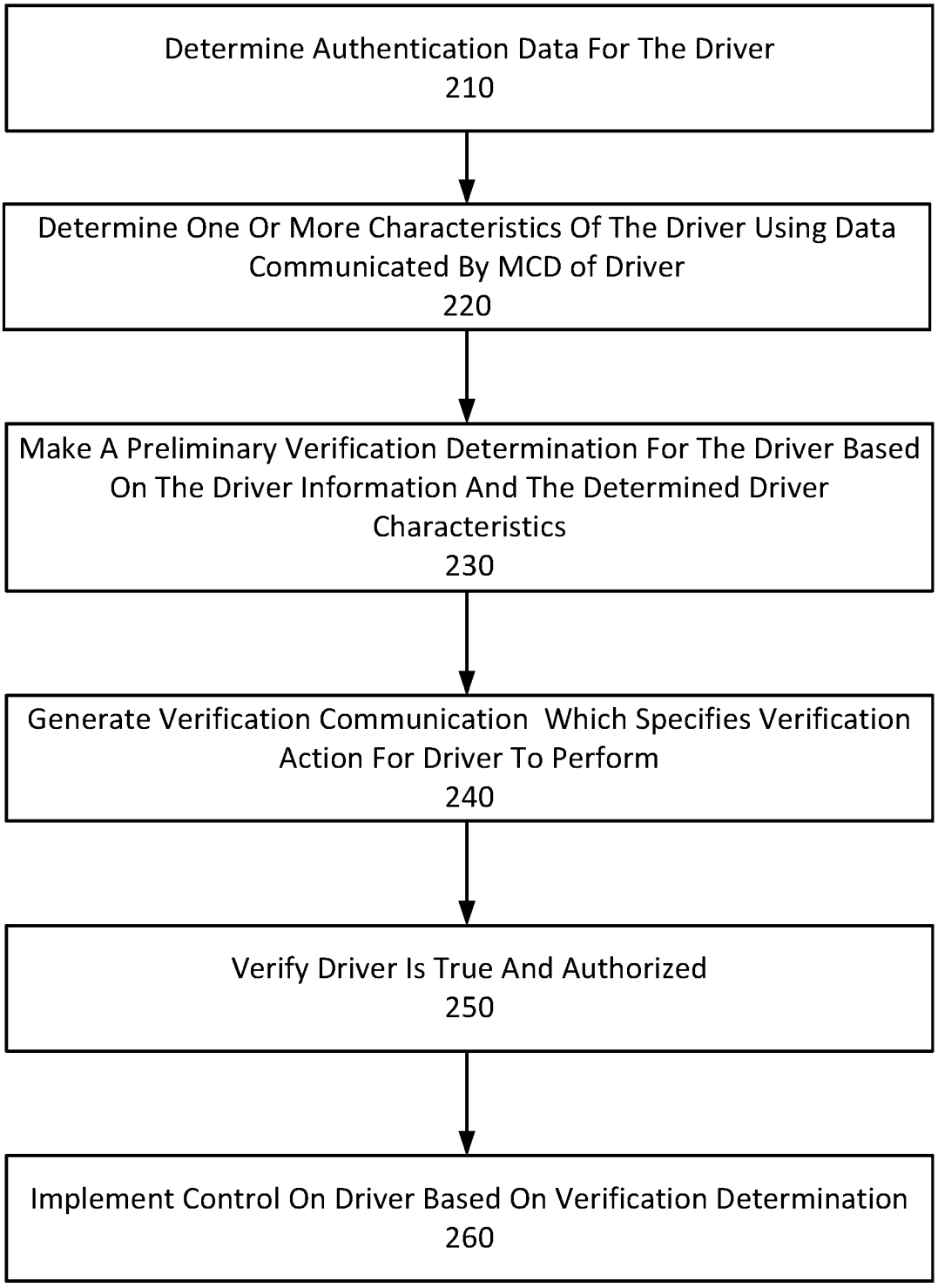

Determine Authentication Data For The Driver
210
Determine One Or More Characteristics Of The Driver Using Data Communicated By MCD of Driver
220
Make A Preliminary Verification Determination For The Driver Based On The Driver Information And The Determined Driver Characteristics
230
Generate Verification Communication Which Specifies Verification Action For Driver To Perform
240
Verify Driver Is True And Authorized
250
Implement Control On Driver Based On Verification Determination
260

FIG. 2

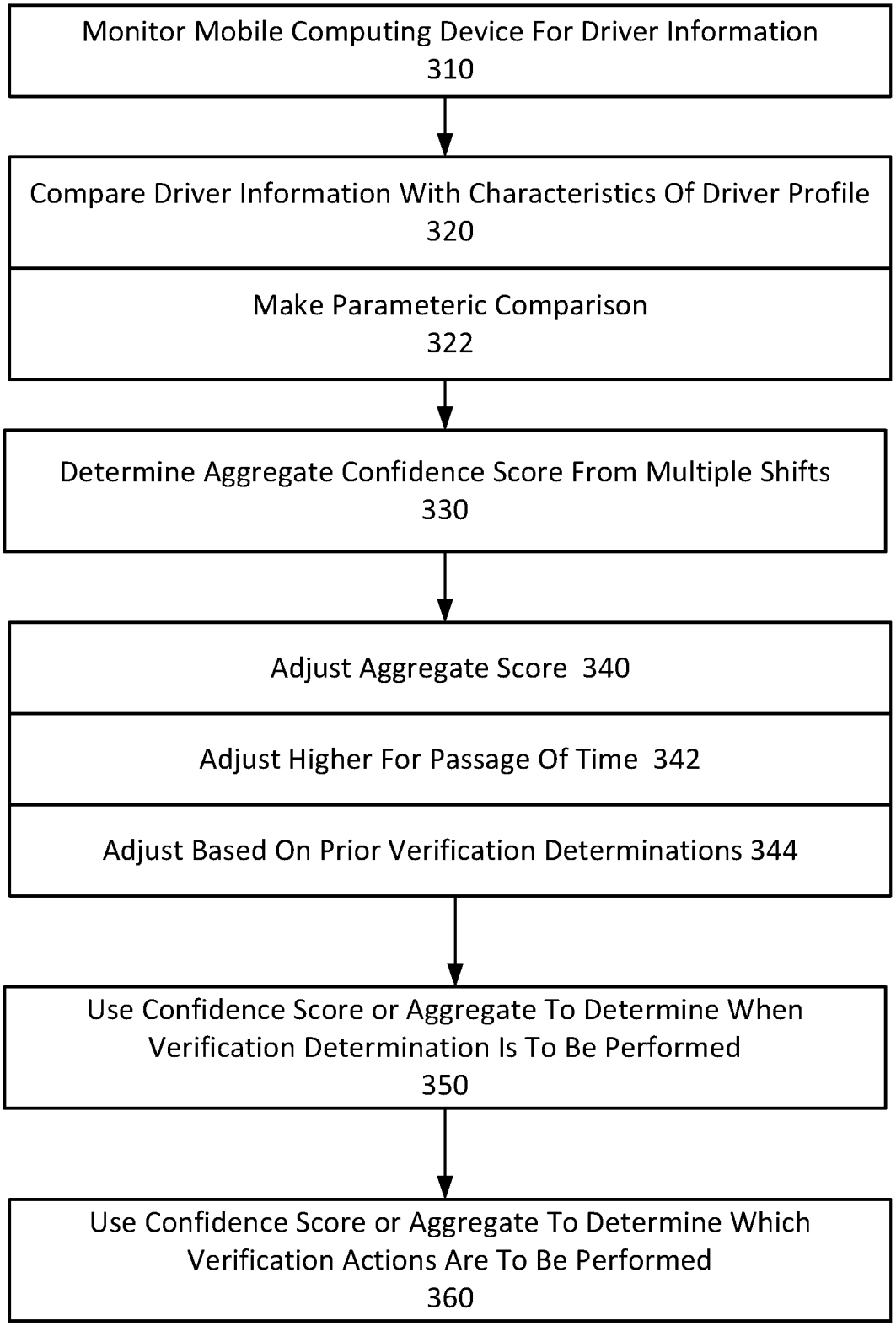

Monitor Mobile Computing Device For Driver Information
310
Compare Driver Information With Characteristics Of Driver Profile
320
Make Parameteric Comparison
322
Determine Aggregate Confidence Score From Multiple Shifts
330
Adjust Aggregate Score 340
Adjust Higher For Passage Of Time 342
Adjust Based On Prior Verification Determinations 344
Use Confidence Score or Aggregate To Determine When Verification Determination Is To Be Performed
350
Use Confidence Score or Aggregate To Determine Which Verification Actions Are To Be Performed
360

FIG. 3

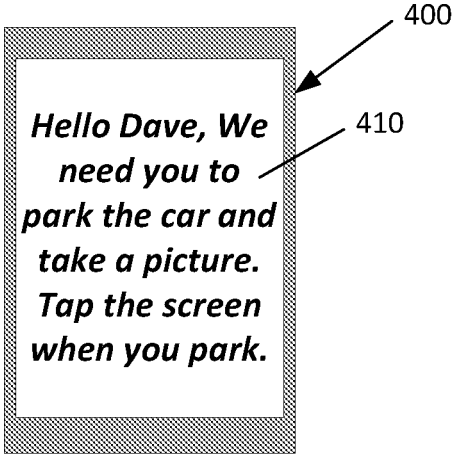


FIG. 4A

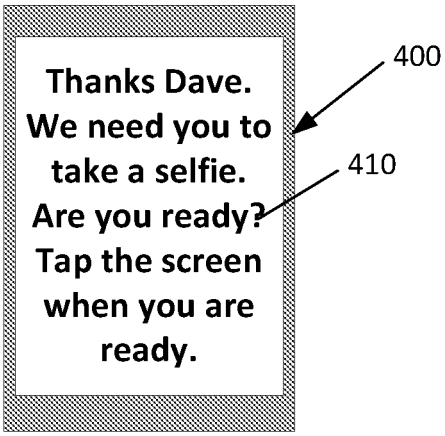


FIG. 4B

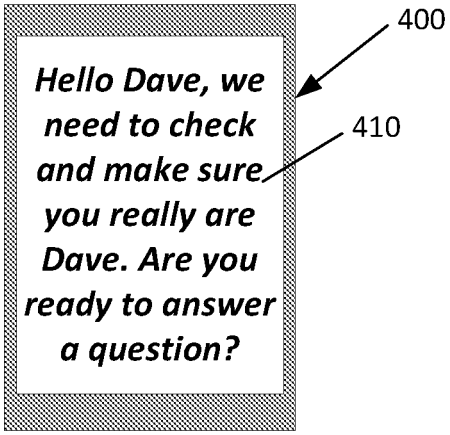


FIG. 4C

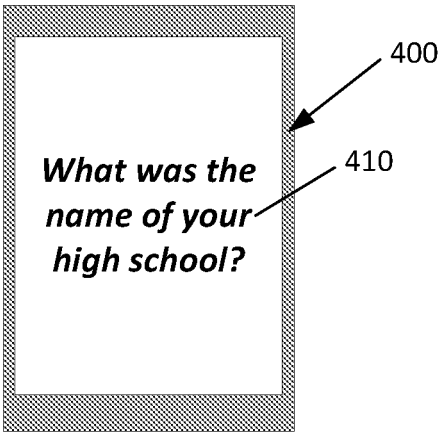


FIG. 4D

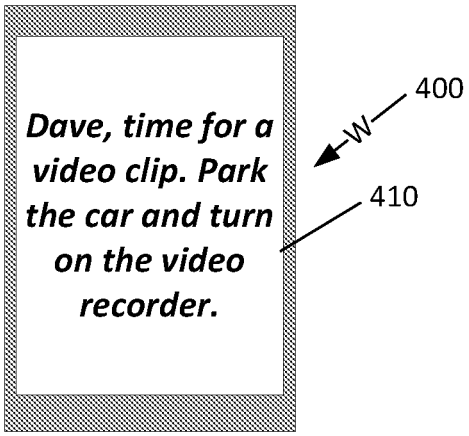


FIG. 4E

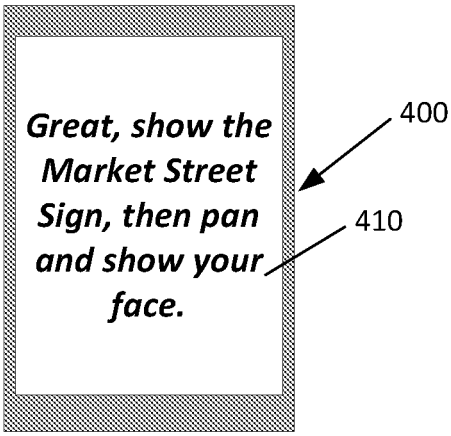


FIG. 4F

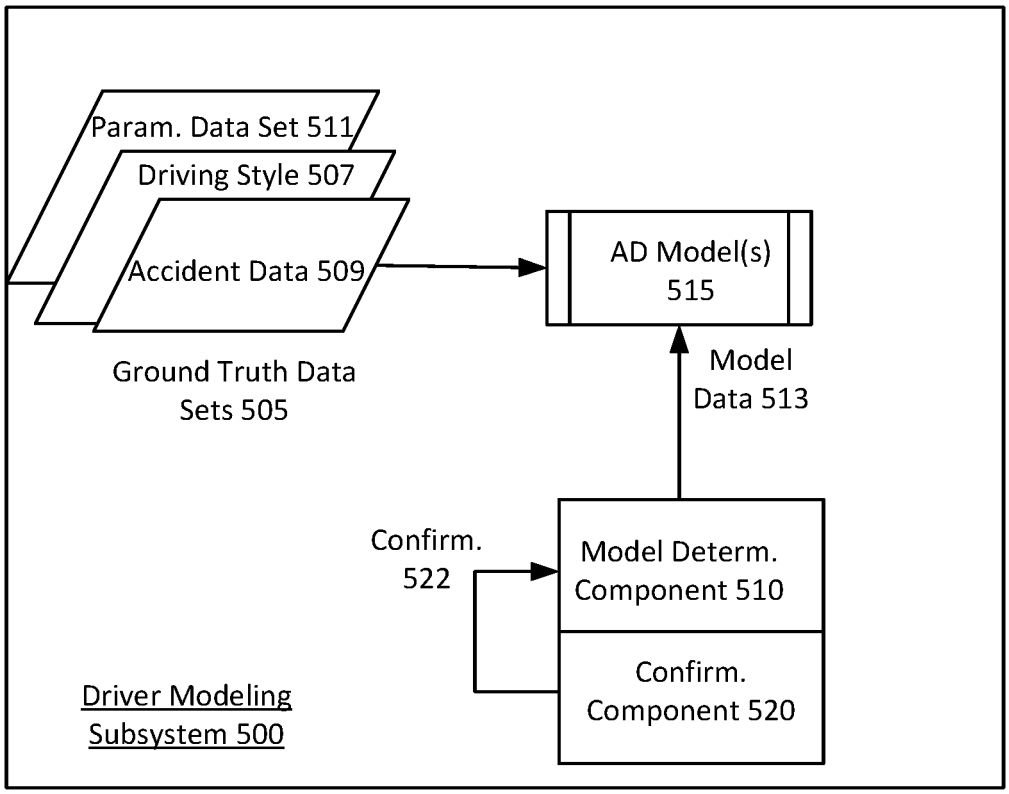

Param. Data Set 511
Driving Style 507
Accident Data 509
Ground Truth Data Sets 505
AD Model(s) 515
Model Data 513
Confirm. 522
Model Determ. Component 510
Confirm. Component 520
Driver Modeling Subsystem 500

FIG. 5

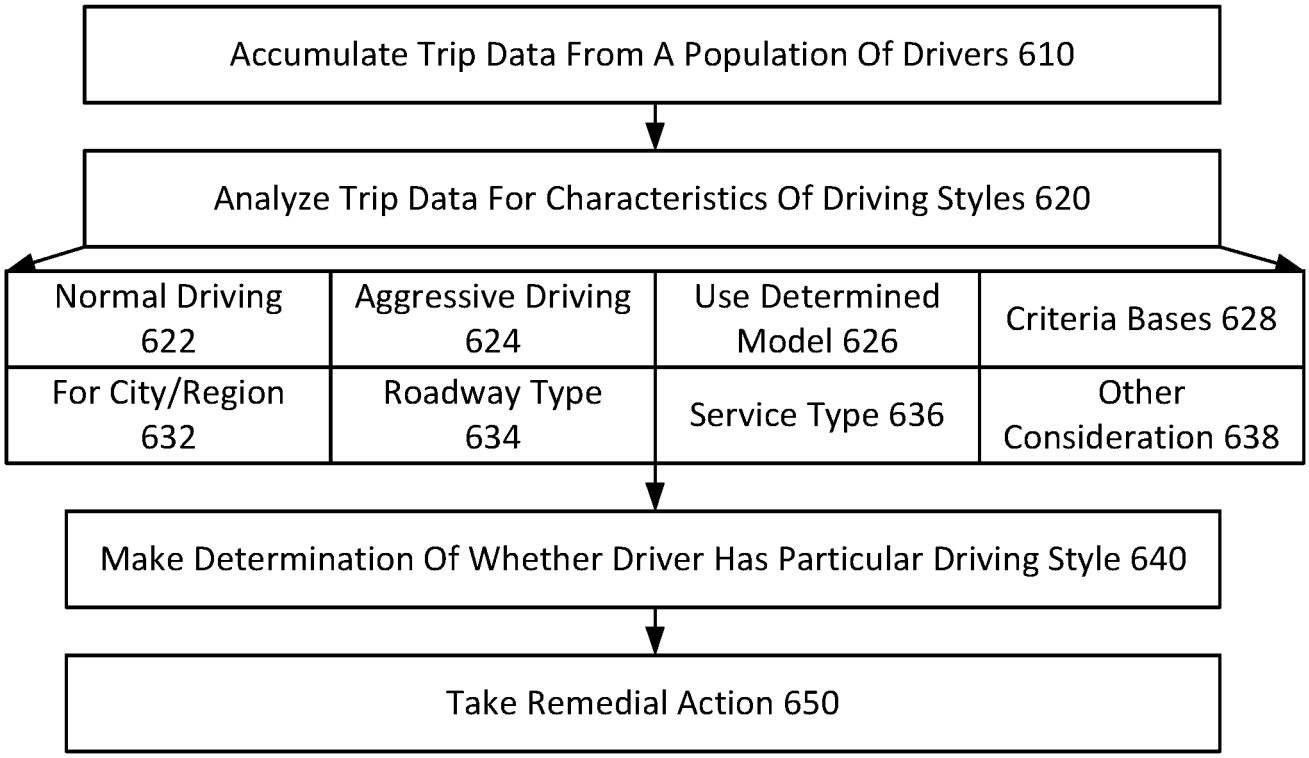

Accumulate Trip Data From A Population Of Drivers 610
Analyze Trip Data For Characteristics Of Driving Styles 620
Normal Driving 622
Aggressive Driving 624
Use Determined Model 626
Criteria Bases 628
For City/Region 632
Roadway Type 634
Service Type 636
Other Consideration 638
Make Determination Of Whether Driver Has Particular Driving Style 640
Take Remedial Action 650

FIG. 6

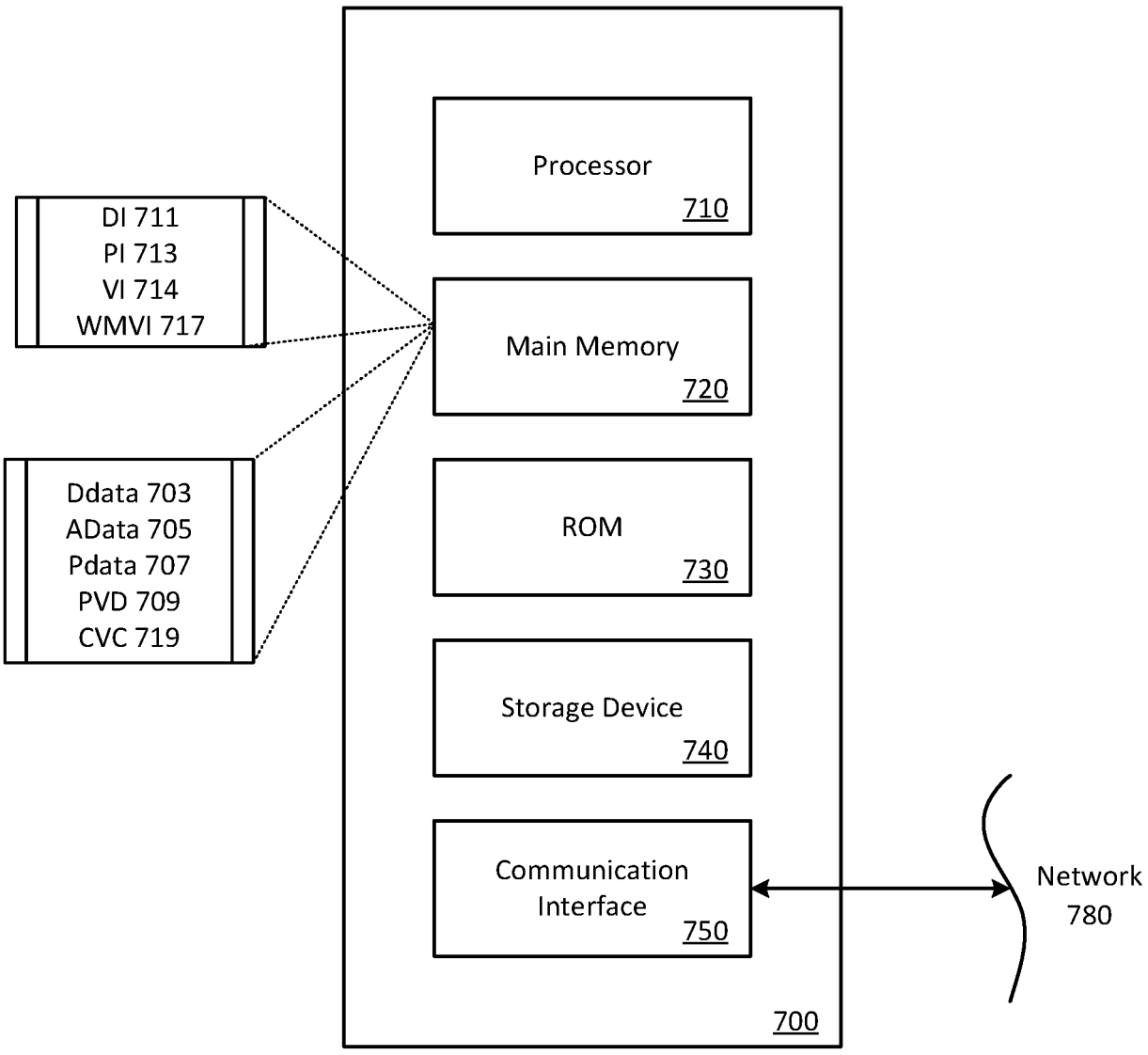

DI 711
PI 713
VI 714
WMVI 717
Ddata 703
AData 705
Pdata 707
PVD 709
CVC 719
Processor
710
Main Memory
720
ROM
730
Storage Device
740
Communication
Interface
750
700
Network
780

FIG. 7

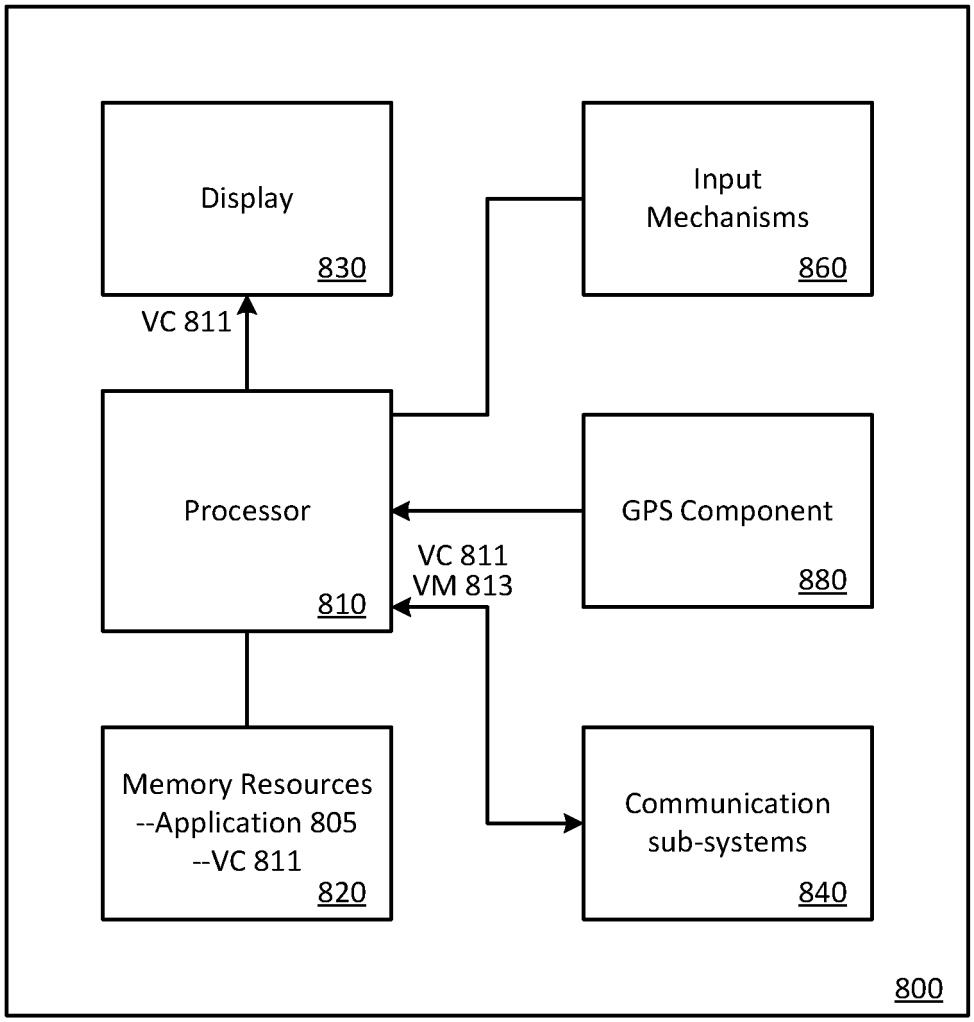

Display
830
Input
Mechanisms
860
VC 811
Processor
810
GPS Component
880
VC 811
VM 813
Memory Resources
--Application 805
--VC 811
820
Communication
sub-systems
840
800

FIG. 8