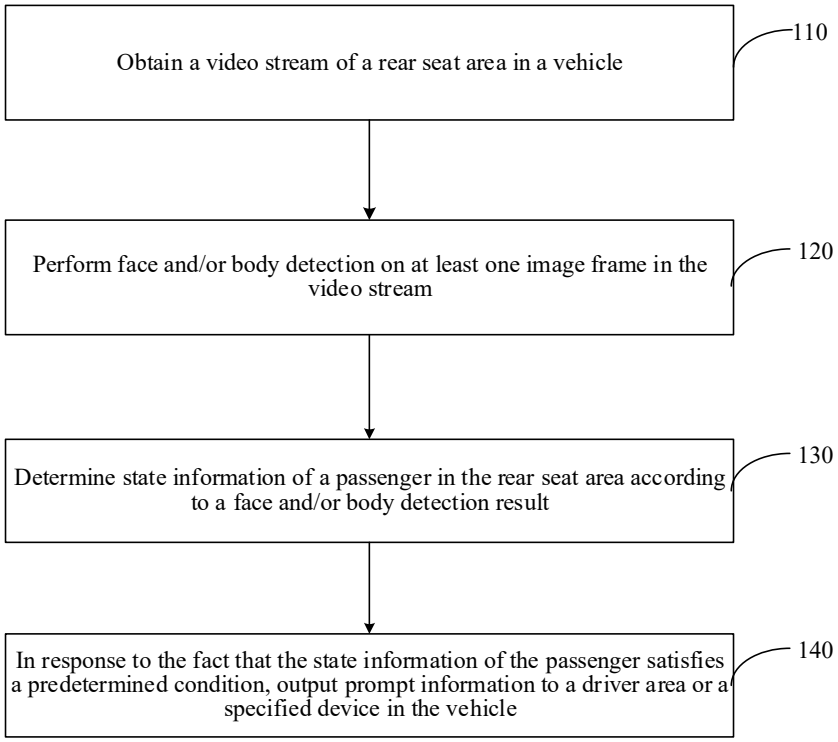
Obtain a video stream of a rear seat area in a vehicle
110
Perform face and/or body detection on at least one image frame in the video stream
120
Determine state information of a passenger in the rear seat area according to a face and/or body detection result
130
In response to the fact that the state information of the passenger satisfies a predetermined condition, output prompt information to a driver area or a specified device in the vehicle
140

FIG. 1

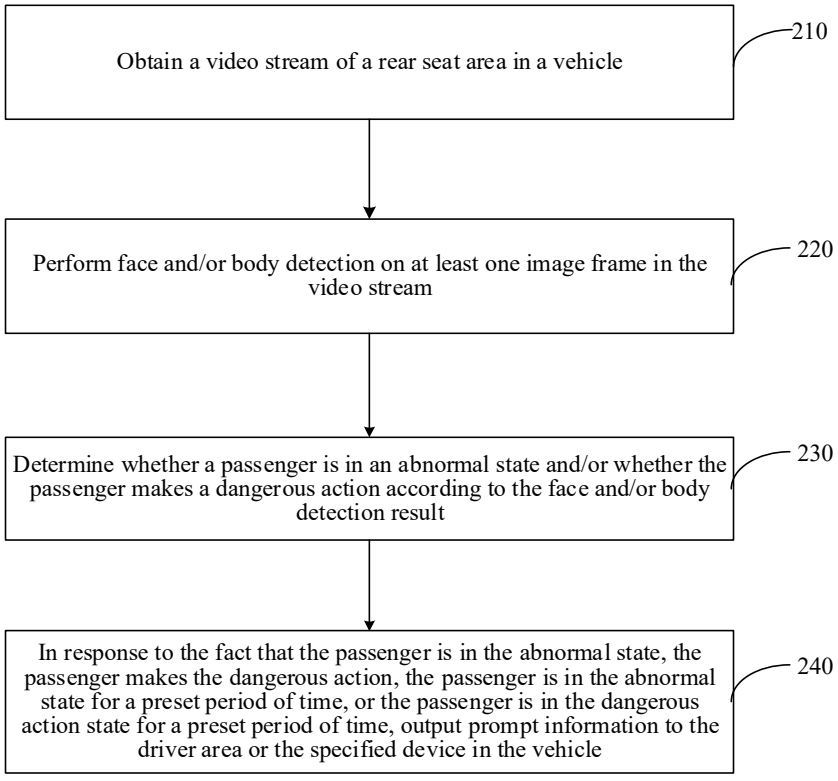
Obtain a video stream of a rear seat area in a vehicle
210
Perform face and/or body detection on at least one image frame in the video stream
220
Determine whether a passenger is in an abnormal state and/or whether the passenger makes a dangerous action according to the face and/or body detection result
230
In response to the fact that the passenger is in the abnormal state, the passenger makes the dangerous action, the passenger is in the abnormal state for a preset period of time, or the passenger is in the dangerous action state for a preset period of time, output prompt information to the driver area or the specified device in the vehicle
240

FIG. 2

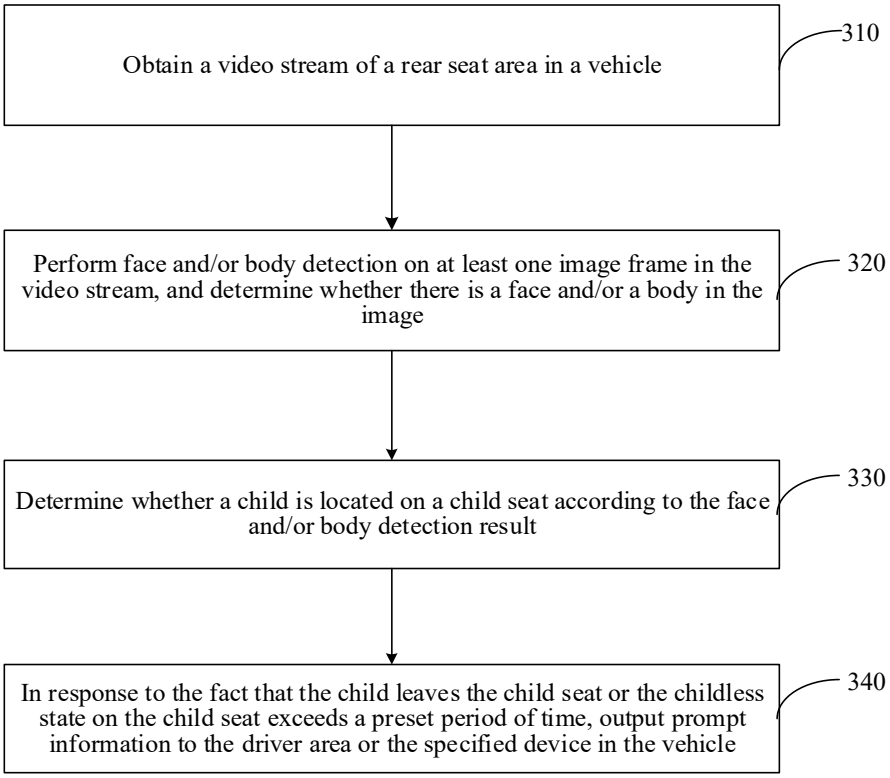
Obtain a video stream of a rear seat area in a vehicle
310
Perform face and/or body detection on at least one image frame in the video stream, and determine whether there is a face and/or a body in the image
320
Determine whether a child is located on a child seat according to the face and/or body detection result
330
In response to the fact that the child leaves the child seat or the childless state on the child seat exceeds a preset period of time, output prompt information to the driver area or the specified device in the vehicle
340

FIG. 3

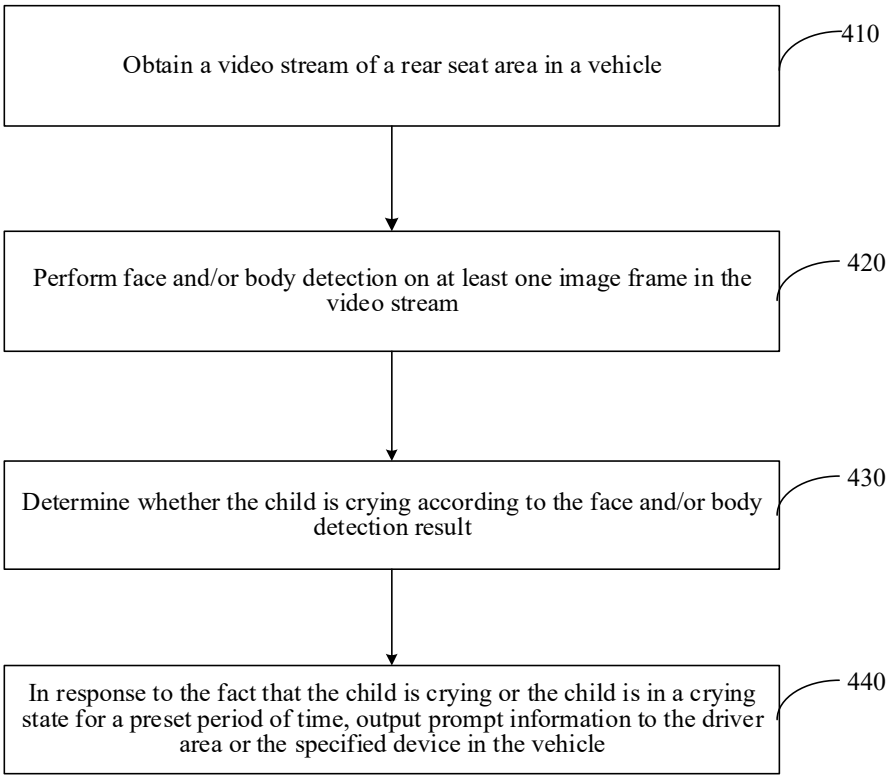
Obtain a video stream of a rear seat area in a vehicle
410
Perform face and/or body detection on at least one image frame in the video stream
420
Determine whether the child is crying according to the face and/or body detection result
430
In response to the fact that the child is crying or the child is in a crying state for a preset period of time, output prompt information to the driver area or the specified device in the vehicle
440

FIG. 4

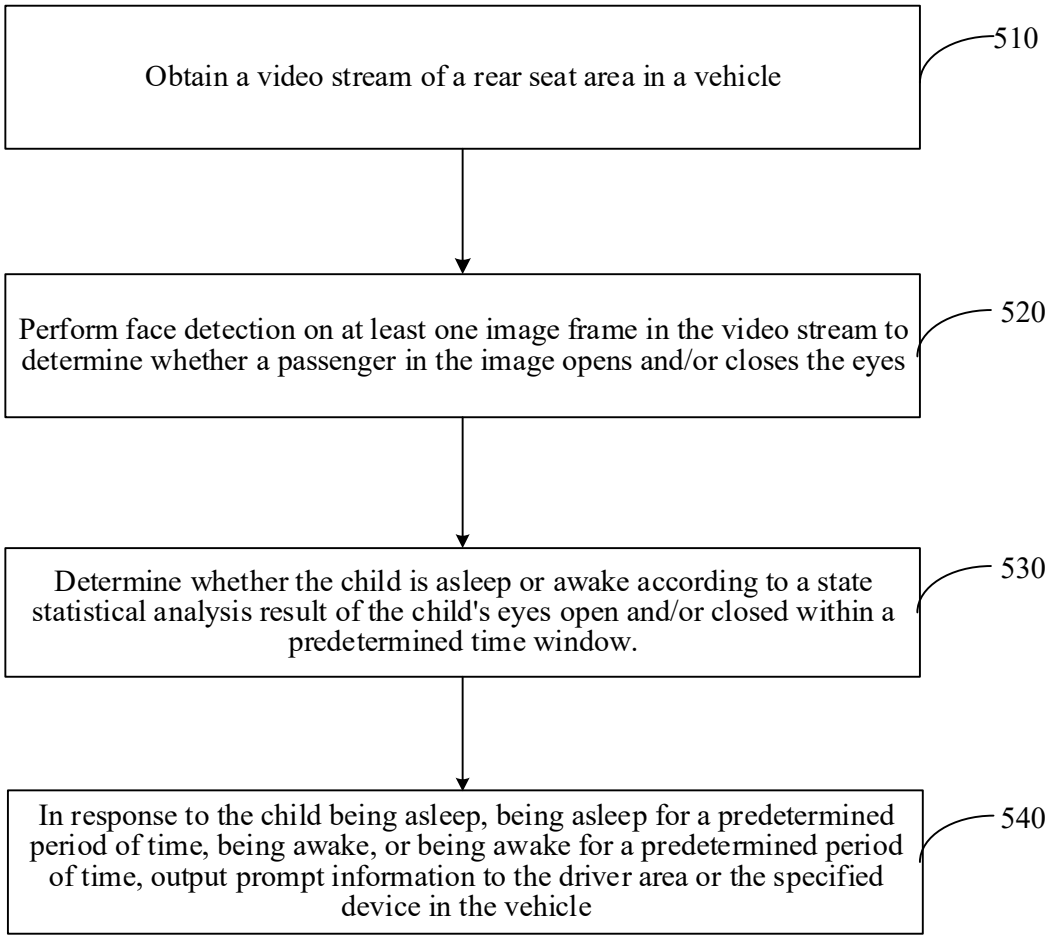
Obtain a video stream of a rear seat area in a vehicle
510
Perform face detection on at least one image frame in the video stream to determine whether a passenger in the image opens and/or closes the eyes
520
Determine whether the child is asleep or awake according to a state statistical analysis result of the child's eyes open and/or closed within a predetermined time window.
530
In response to the child being asleep, being asleep for a predetermined period of time, being awake, or being awake for a predetermined period of time, output prompt information to the driver area or the specified device in the vehicle
540

FIG. 5

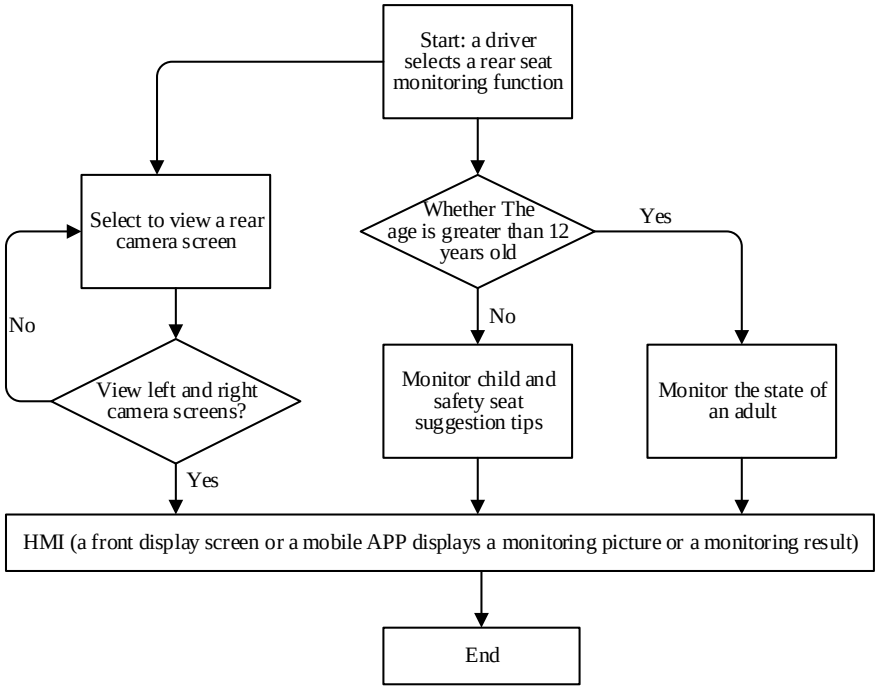
Start: a driver selects a rear seat monitoring function
Select to view a rear camera screen
Whether The age is greater than 12 years old
Yes
No
No
View left and right camera screens?
Monitor child and safety seat suggestion tips
Monitor the state of an adult
Yes
HMI (a front display screen or a mobile APP displays a monitoring picture or a monitoring result)
End

FIG. 6

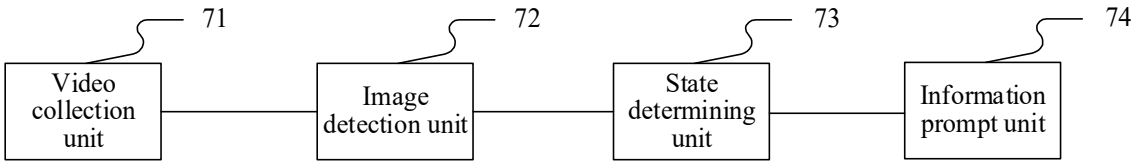
71
72
73
74
Video collection unit
Image detection unit
State determining unit
Information prompt unit

FIG. 7

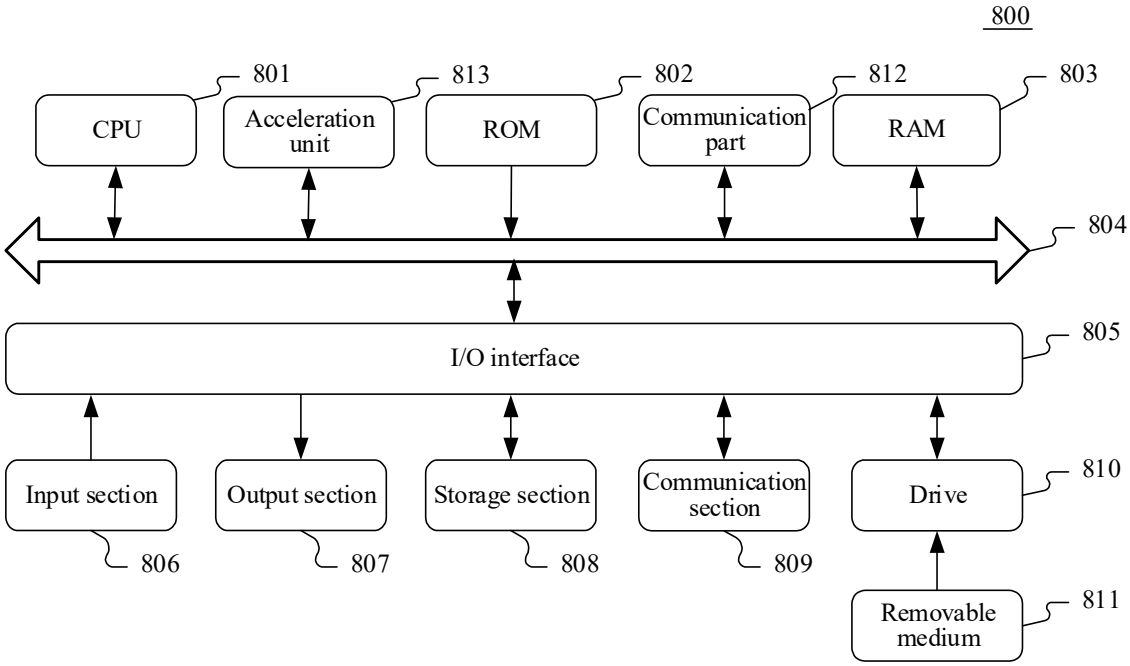
800
801
813
802
812
803
CPU
Acceleration unit
ROM
Communication part
RAM
804
I/O interface
805
Input section
Output section
Storage section
Communication section
Drive
810
806
807
808
809
Removable medium
811

FIG. 8