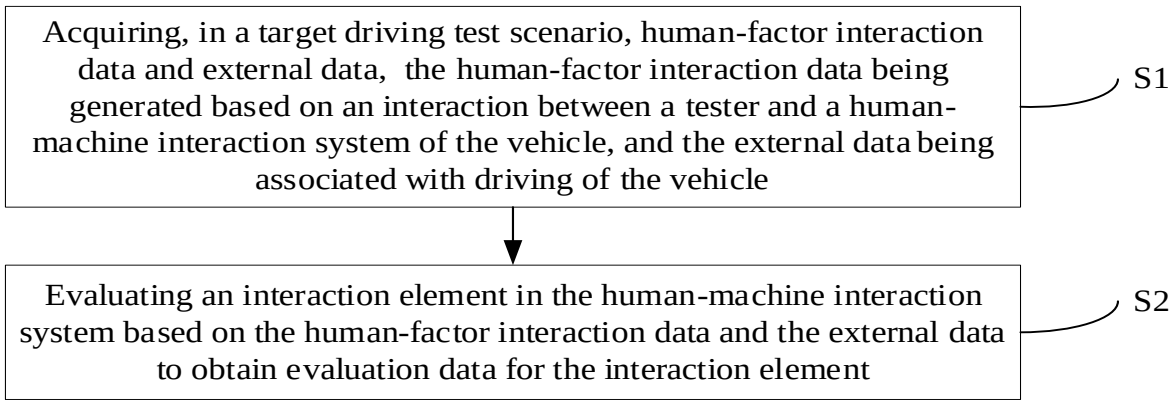
Acquiring, in a target driving test scenario, human-factor interaction data and external data, the human-factor interaction data being generated based on an interaction between a tester and a human-machine interaction system of the vehicle, and the external data being associated with driving of the vehicle
S1
Evaluating an interaction element in the human-machine interaction system based on the human-factor interaction data and the external data to obtain evaluation data for the interaction element
S2

FIG. 1

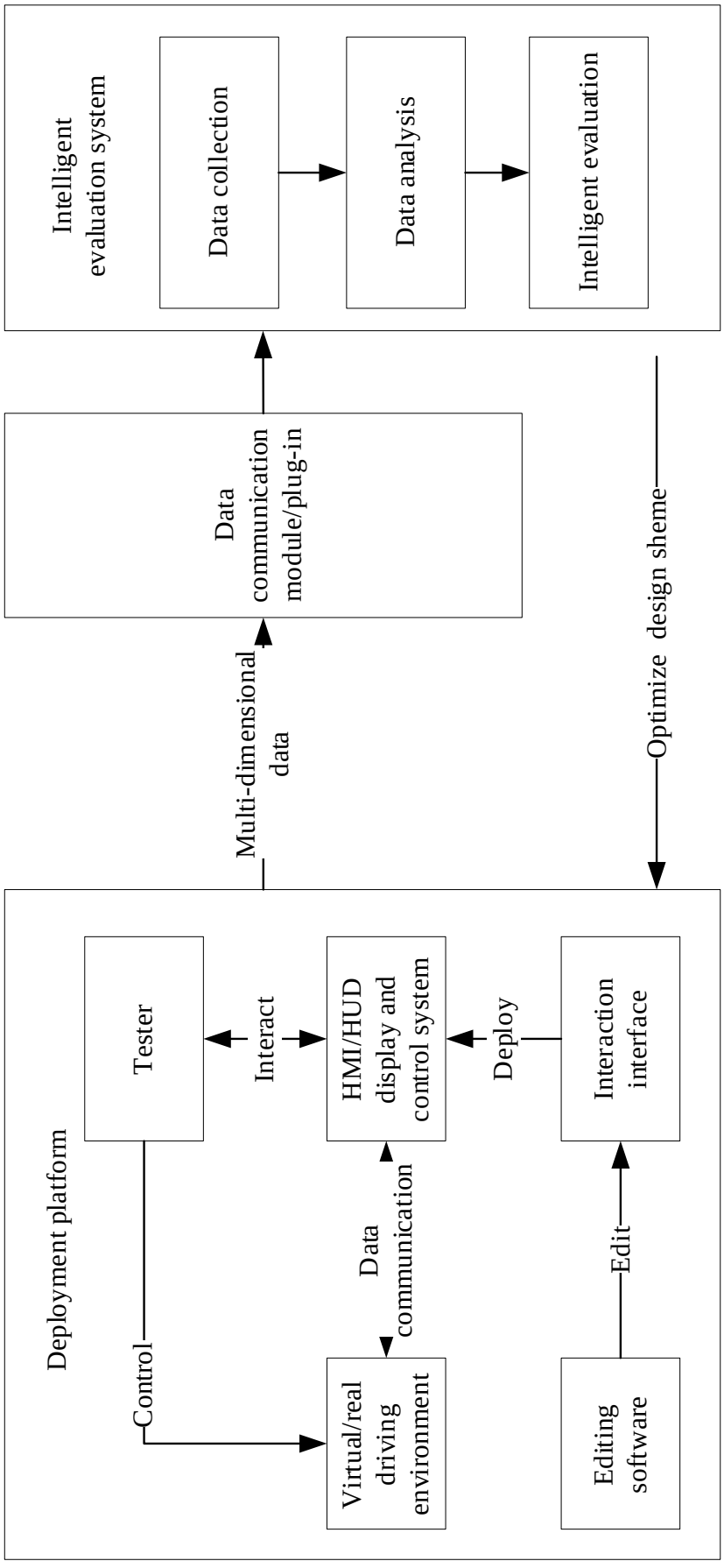
Intelligent evaluation system
Data collection
Data analysis
Intelligent evaluation
Data communication module/plug-in
Multi-dimensional data
Optimize design sheme
Deployment platform
Tester
Interact
HMI/HUD display and control system
Deploy
Interaction interface
Control
Data communication
Edit
Virtual/real driving environment
Editing software

FIG. 2

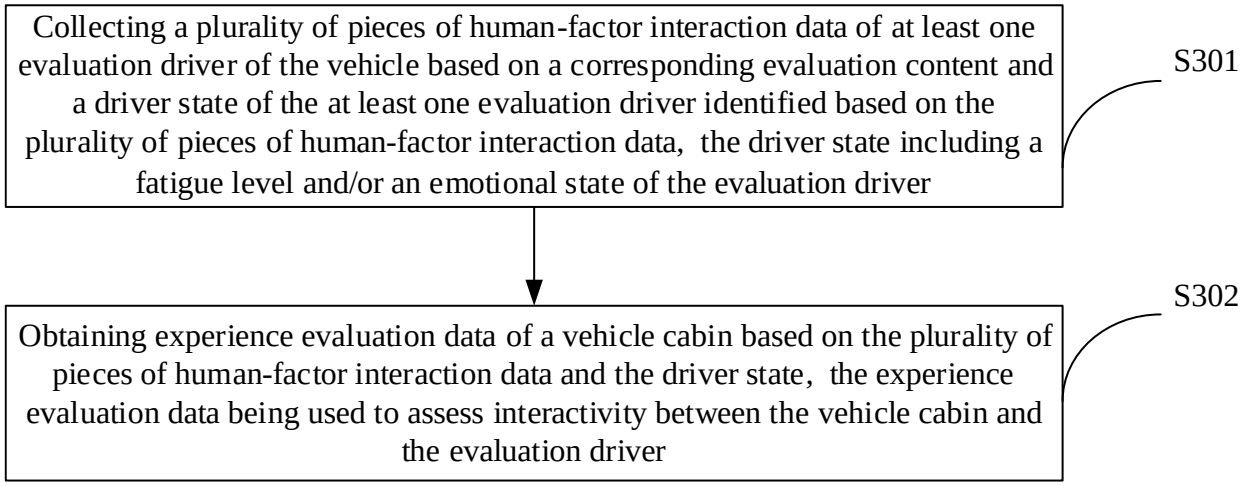

FIG. 3

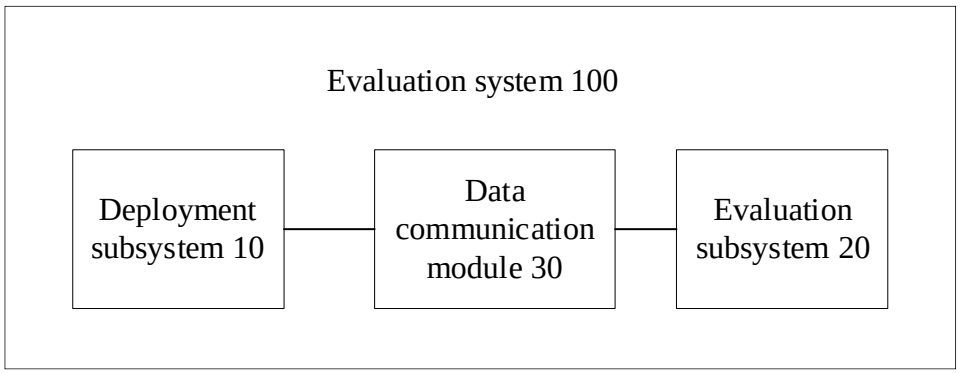

FIG. 4

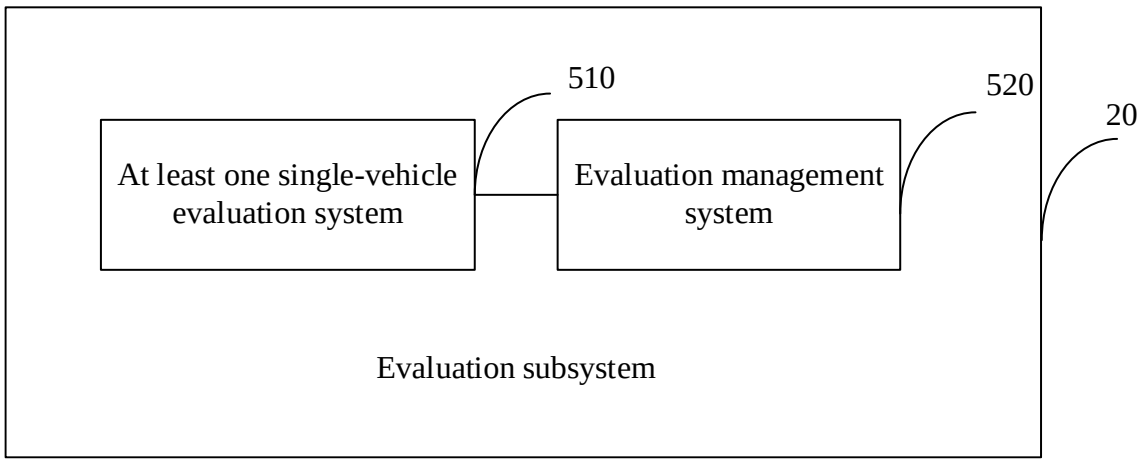

FIG. 5

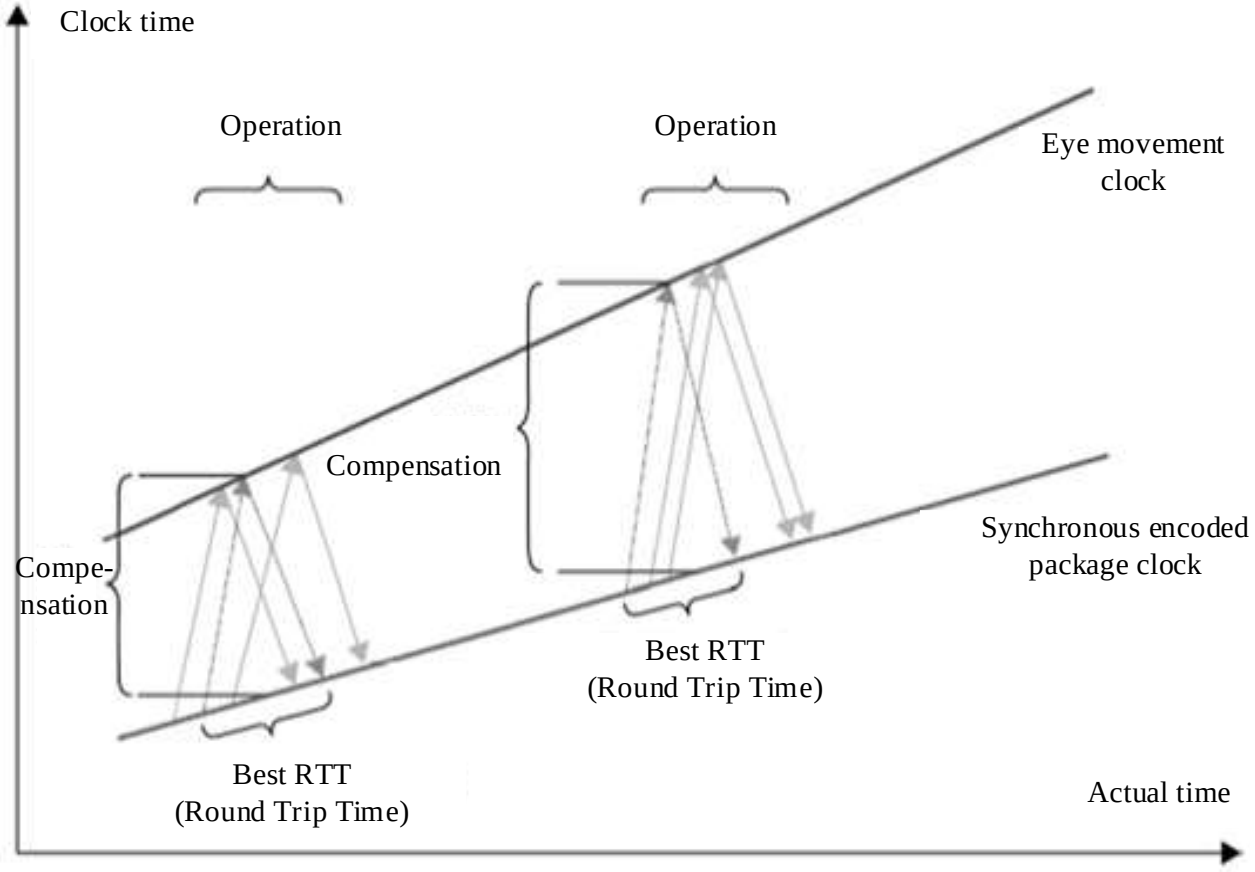
Clock time
Operation
Operation
Eye movement clock
Compensation
Compe-nsation
Synchronous encoded package clock
Best RTT (Round Trip Time)
Best RTT (Round Trip Time)
Actual time

FIG. 6

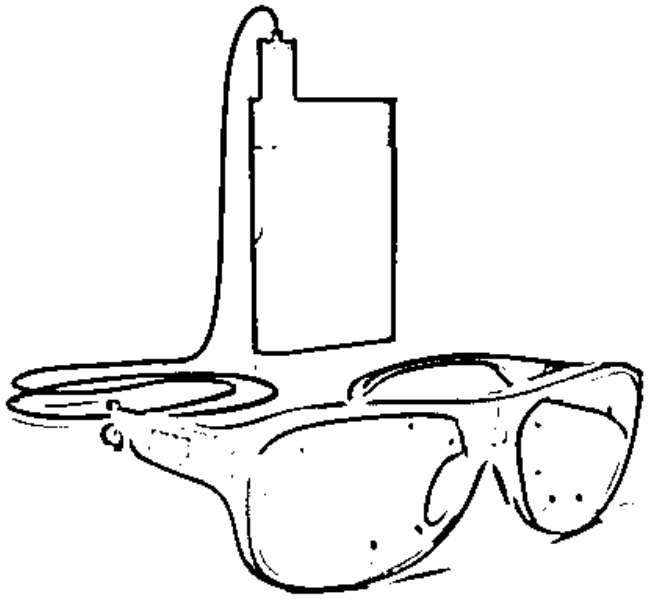

FIG. 7

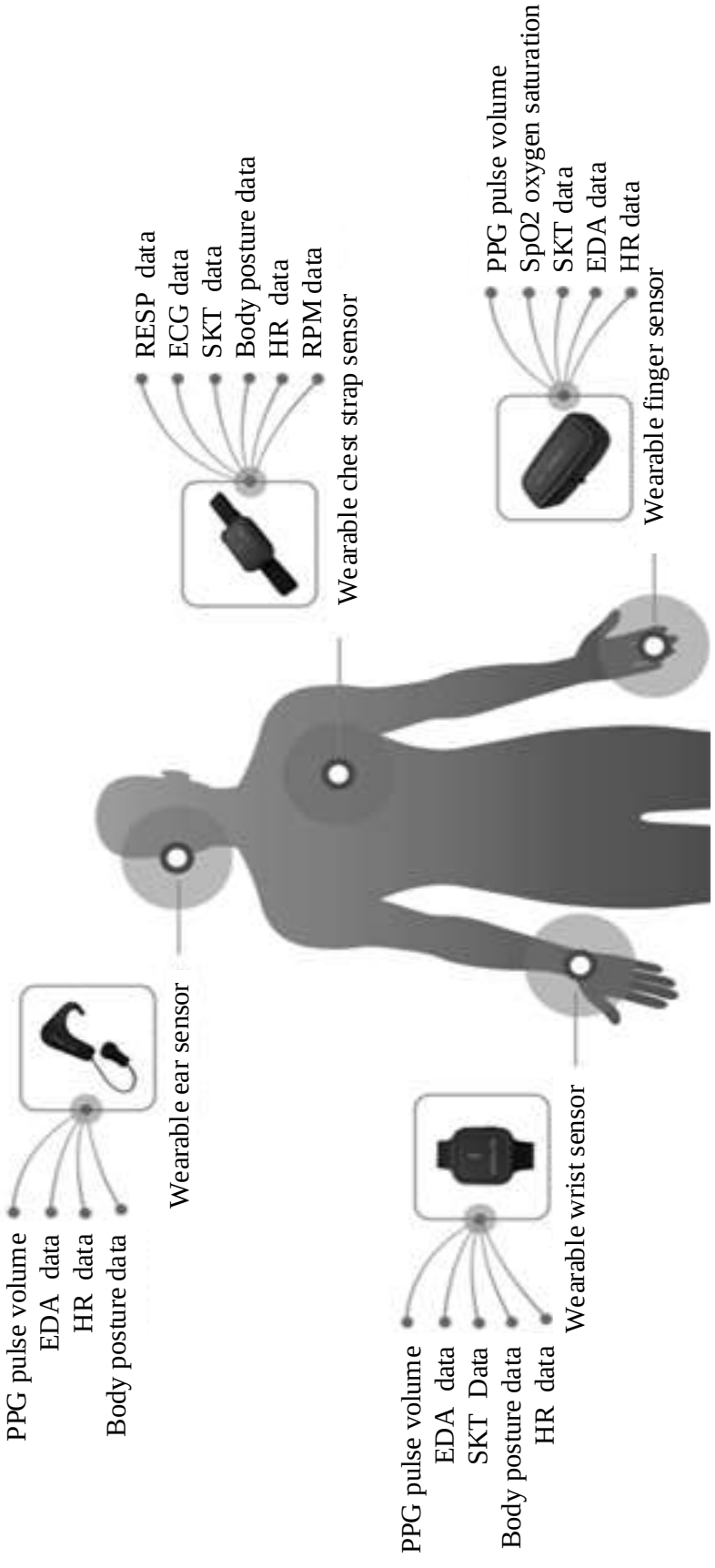
PPG pulse volume
EDA data
HR data
Body posture data
Wearable ear sensor
RESP data
ECG data
SKT data
Body posture data
HR data
RPM data
Wearable chest strap sensor
PPG pulse volume
SpO2 oxygen saturation
SKT data
EDA data
HR data
Wearable finger sensor
PPG pulse volume
EDA data
SKT Data
Body posture data
HR data
Wearable wrist sensor

FIG. 8

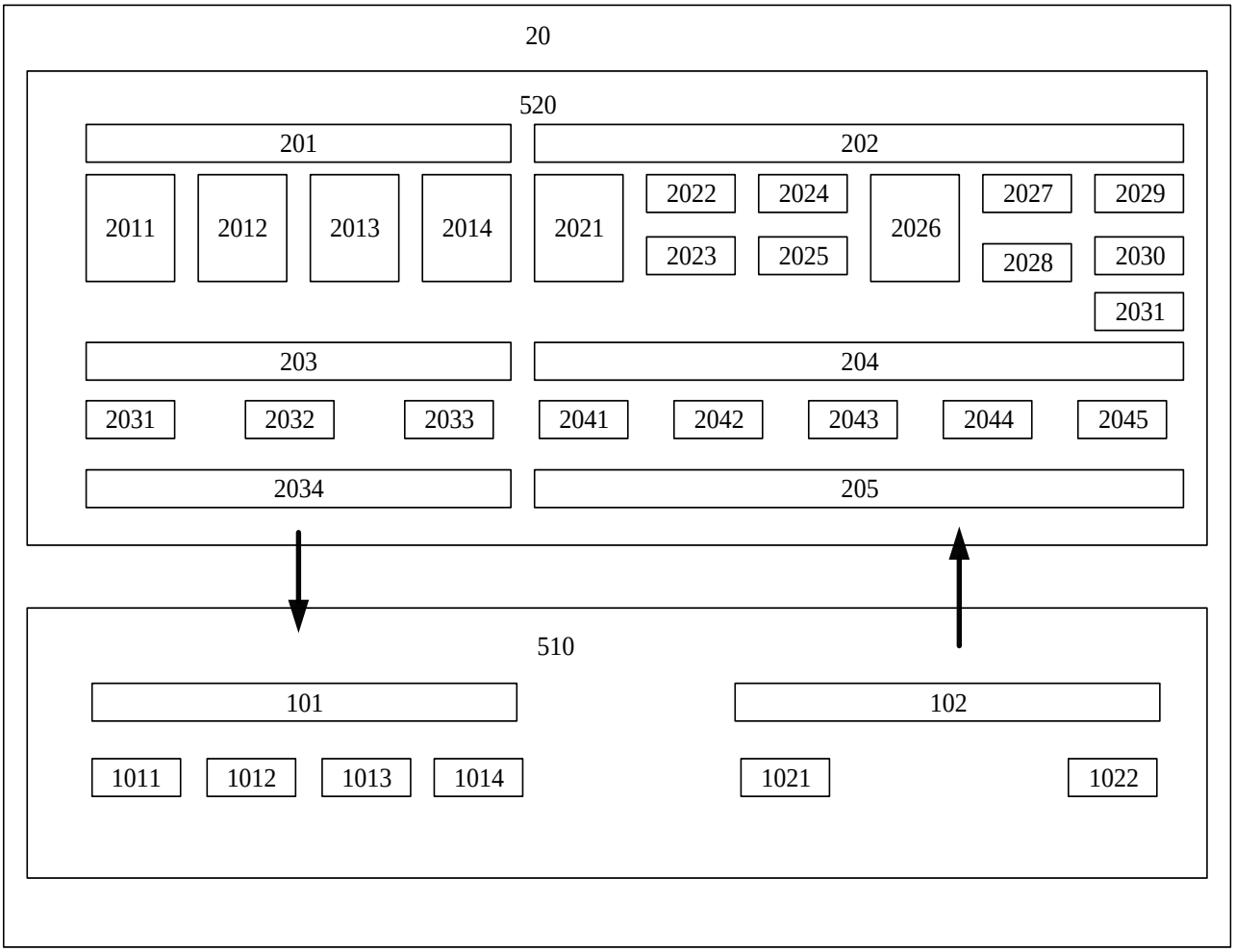
20
520
201
202
2011
2012
2013
2014
2021
2022
2024
2026
2027
2029
2023
2025
2028
2030
2031
203
204
2031
2032
2033
2041
2042
2043
2044
2045
2034
205
510
101
102
1011
1012
1013
1014
1021
1022

FIG. 9

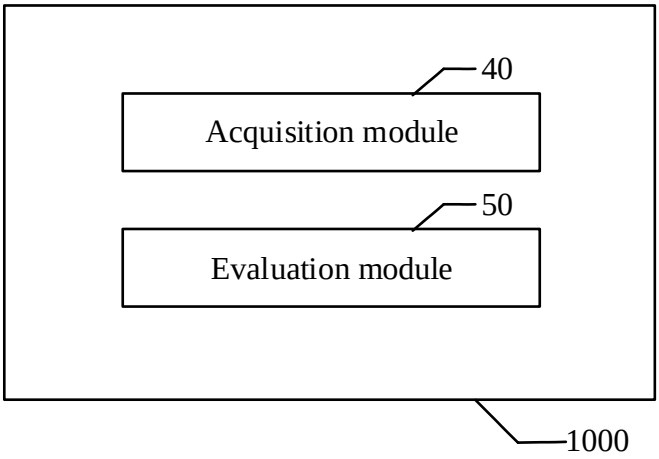
40
Acquisition module
50
Evaluation module
1000

FIG. 10

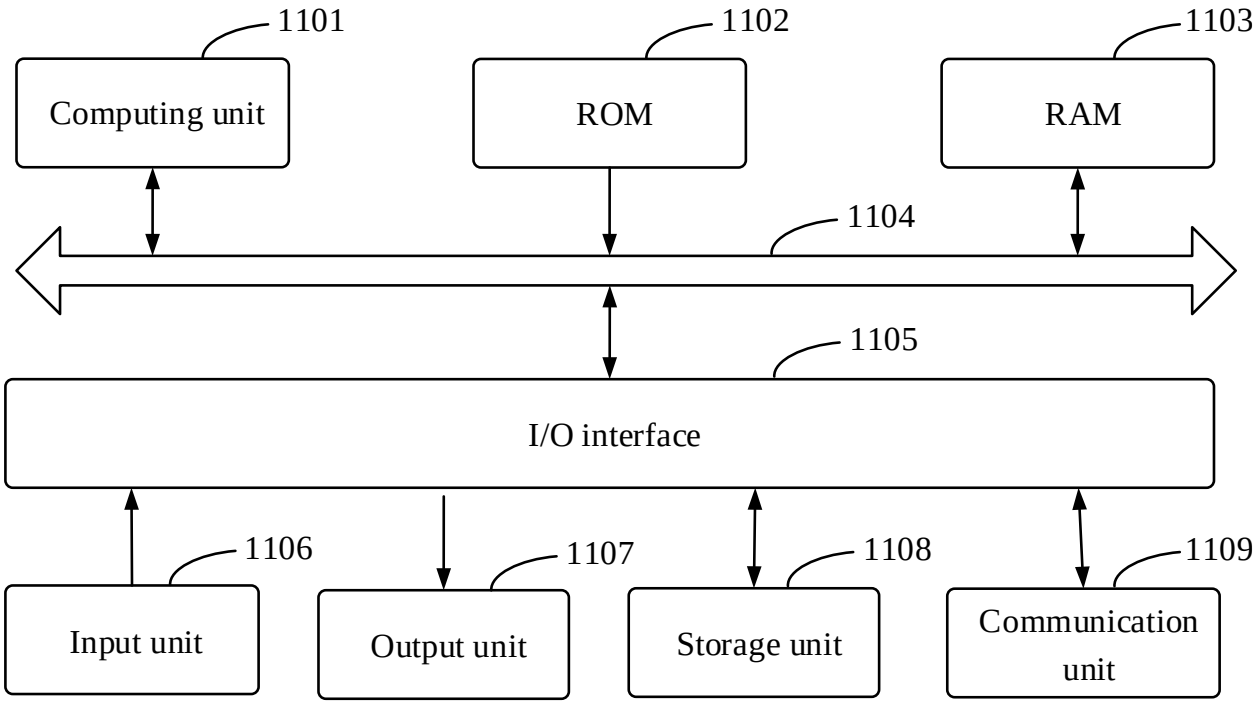
1101
Computing unit
1102
ROM
1103
RAM
1104
1105
I/O interface
1106
Input unit
1107
Output unit
1108
Storage unit
1109
Communication unit

FIG. 11