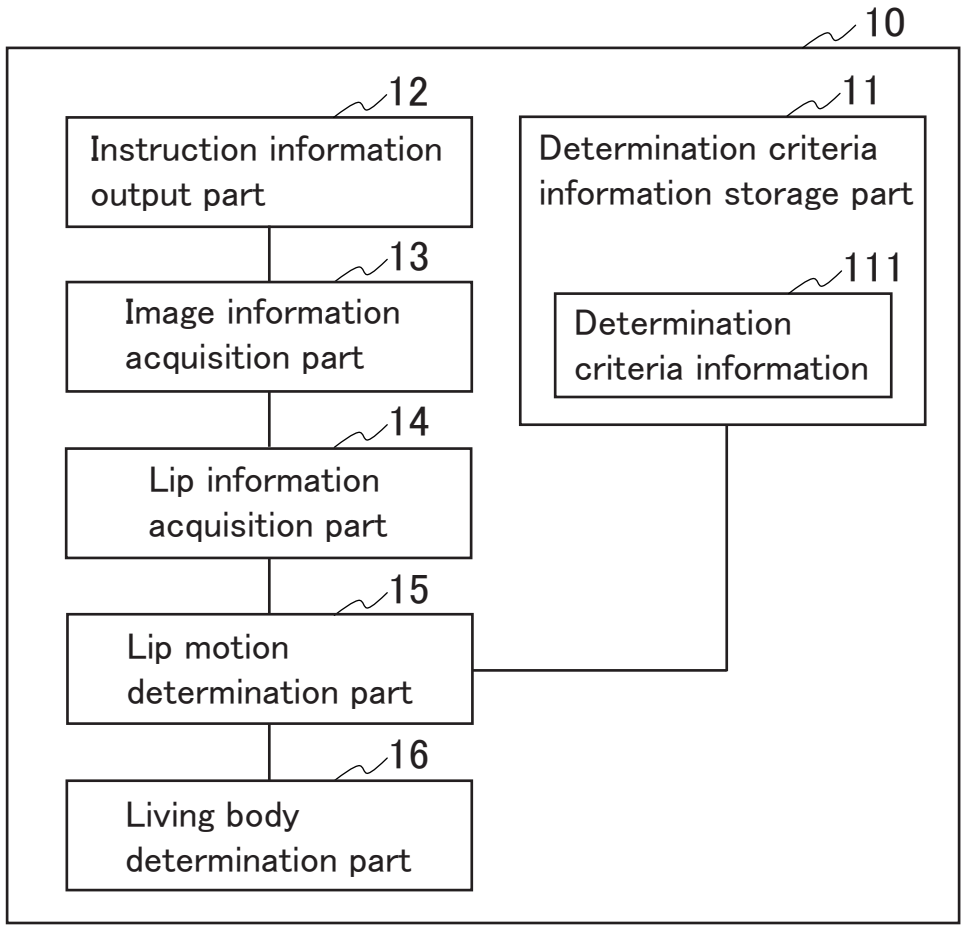

10
12
Instruction information output part
11
Determination criteria information storage part
13
Image information acquisition part
111
Determination criteria information
14
Lip information acquisition part
15
Lip motion determination part
16
Living body determination part

FIG. 1

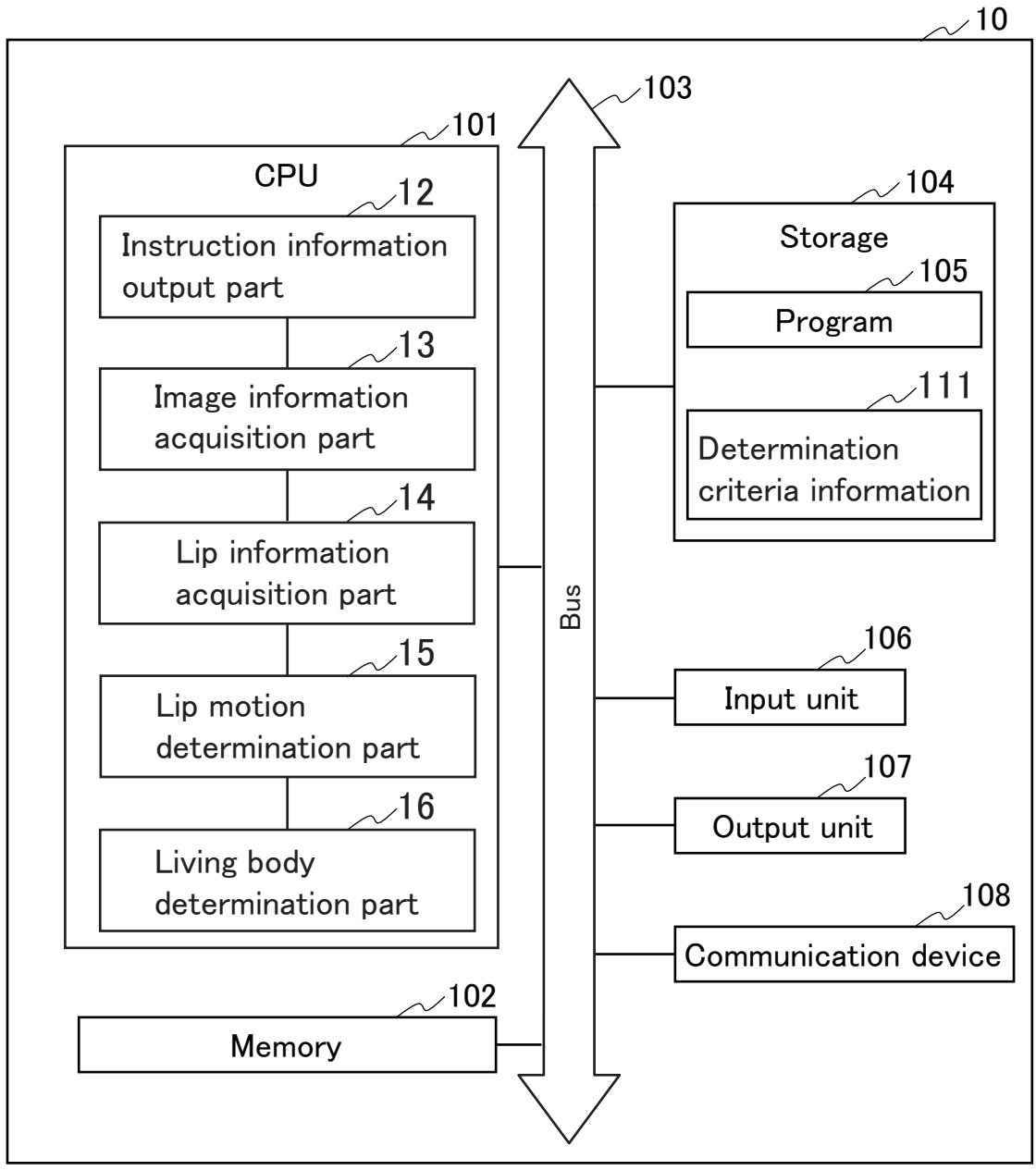

10
103
101
CPU
12
Instruction information output part
13
Image information acquisition part
14
Lip information acquisition part
15
Lip motion determination part
16
Living body determination part
104
Storage
105
Program
111
Determination criteria information
Bus
106
Input unit
107
Output unit
108
Communication device
102
Memory

FIG. 2

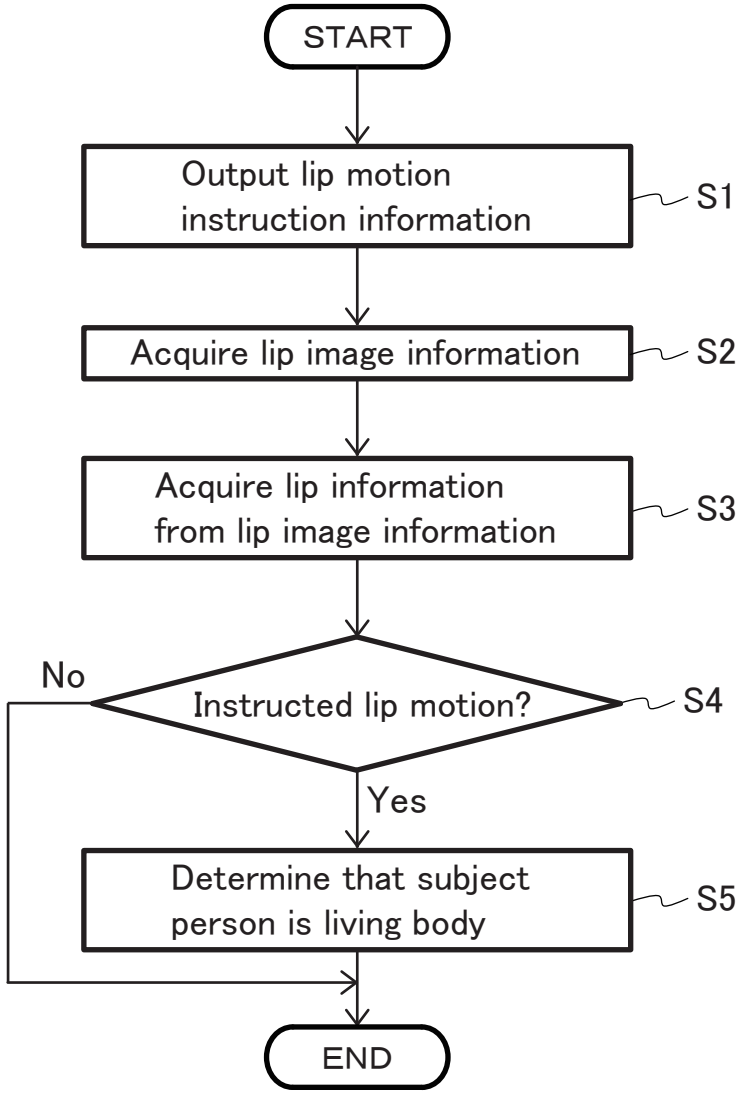

START
Output lip motion instruction information
S1
Acquire lip image information
S2
Acquire lip information from lip image information
S3
No
Instructed lip motion?
S4
Yes
Determine that subject person is living body
S5
END

FIG. 3

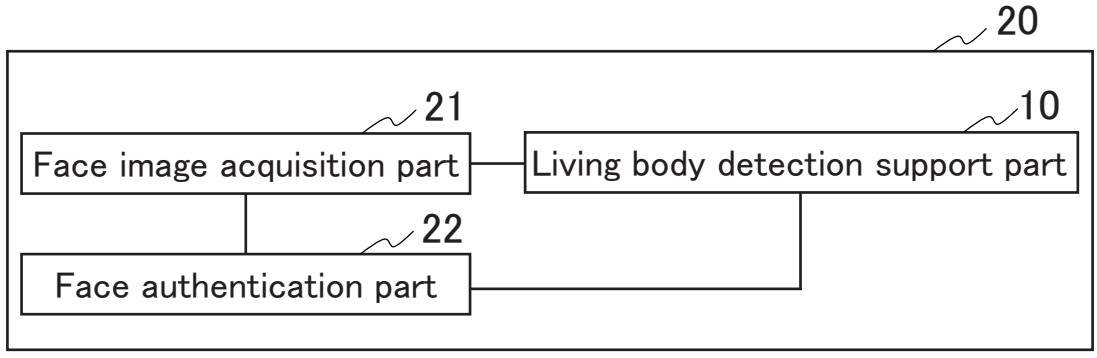

20
21
Face image acquisition part
10
Living body detection support part
22
Face authentication part

FIG. 4A

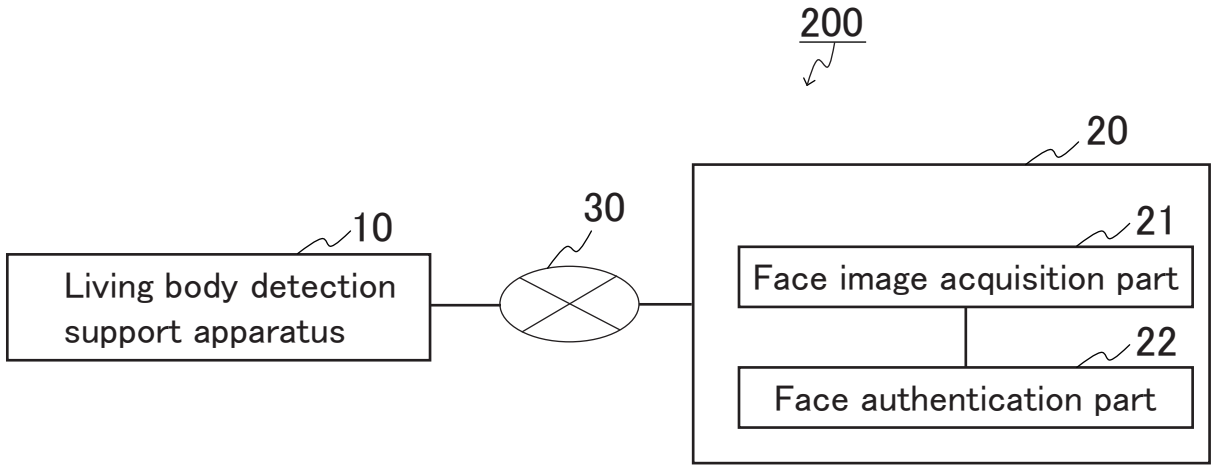

200
20
10
Living body detection support apparatus
30
21
Face image acquisition part
22
Face authentication part

FIG. 4B

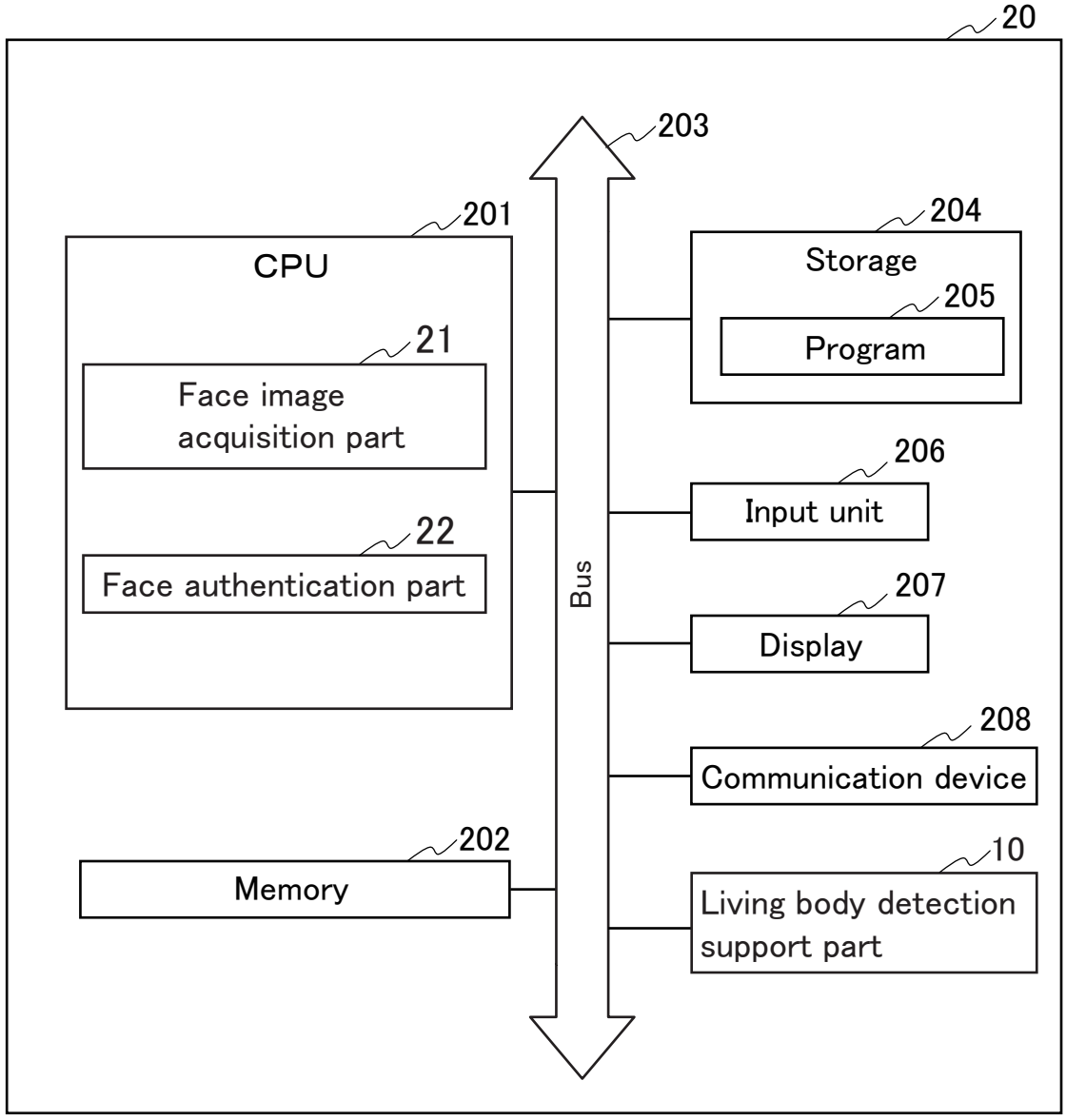

20
203
201
CPU
21
Face image acquisition part
22
Face authentication part
204
Storage
205
Program
206
Input unit
207
Display
208
Communication device
10
Living body detection support part
202
Memory
Bus

FIG. 5

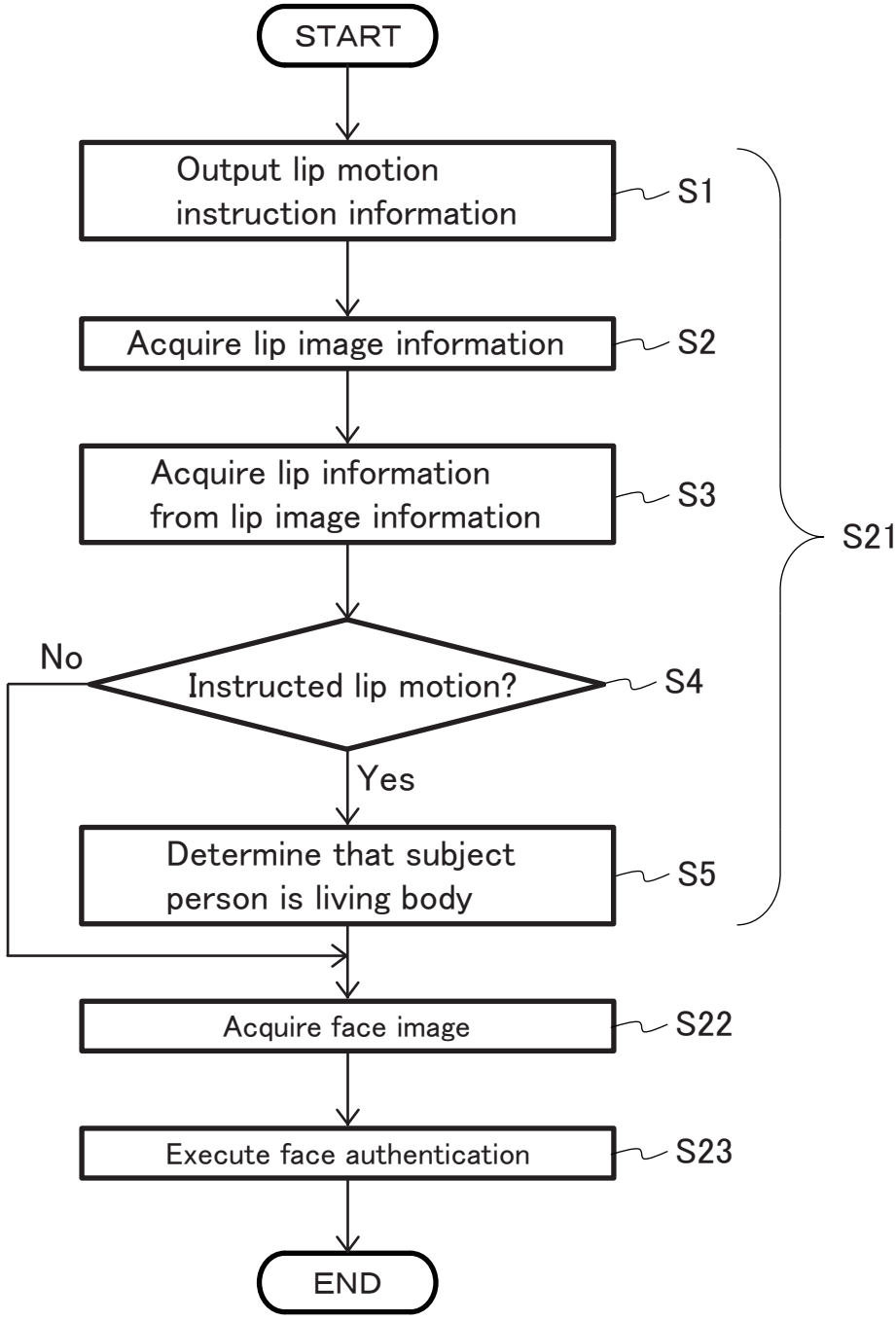

START
Output lip motion instruction information
S1
Acquire lip image information
S2
Acquire lip information from lip image information
S3
S21
No
Instructed lip motion?
S4
Yes
Determine that subject person is living body
S5
Acquire face image
S22
Execute face authentication
S23
END

FIG. 6