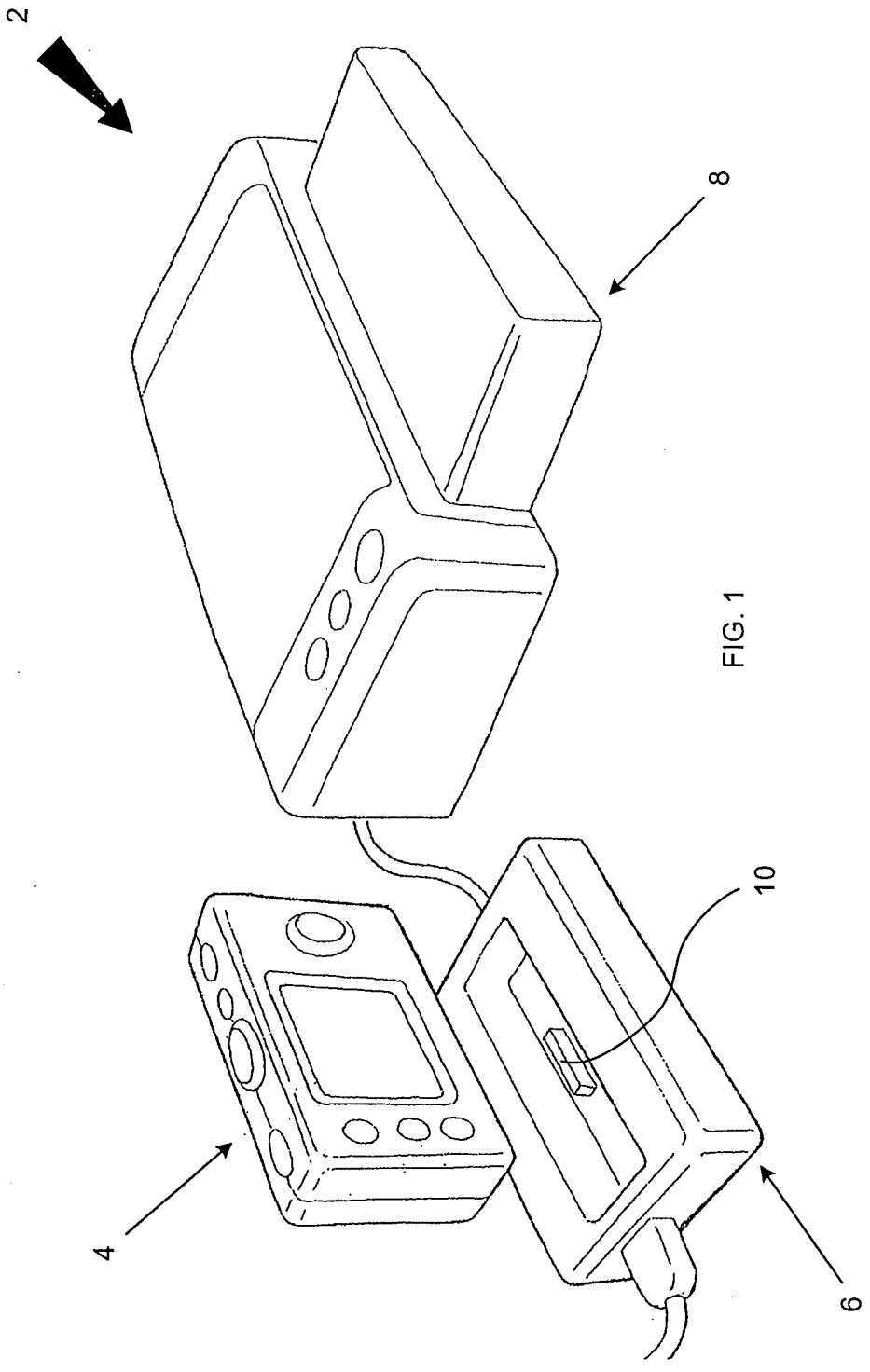


FIG. 1

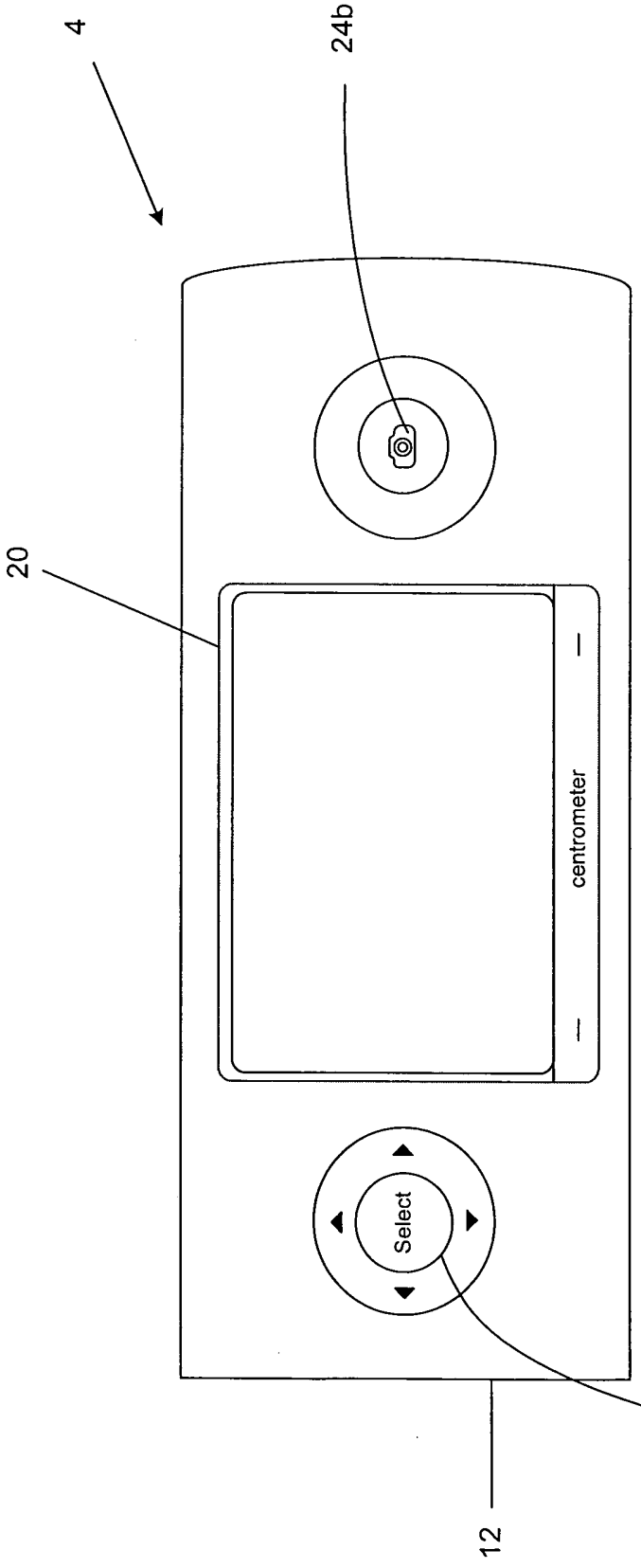


FIG 2a

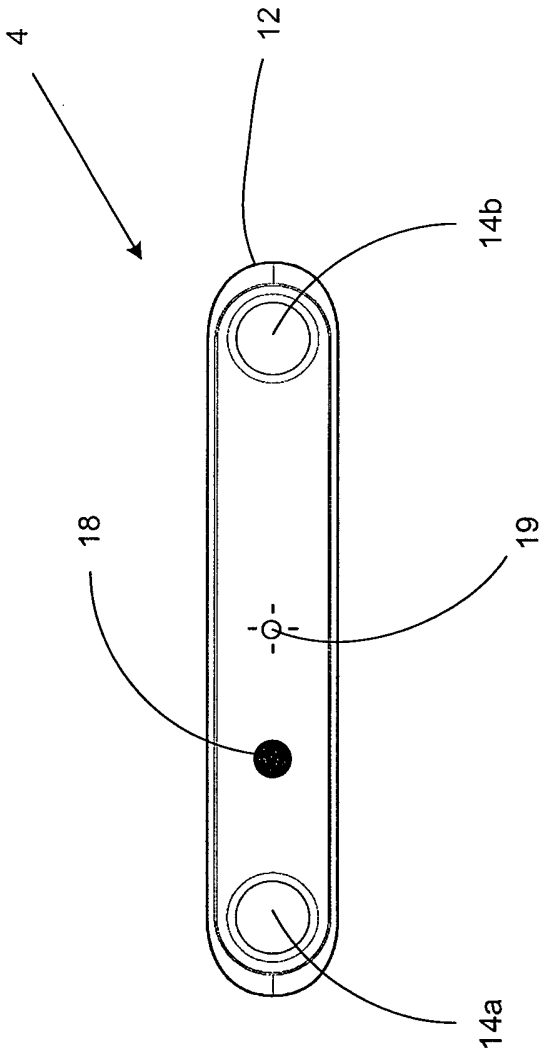


FIG. 2b

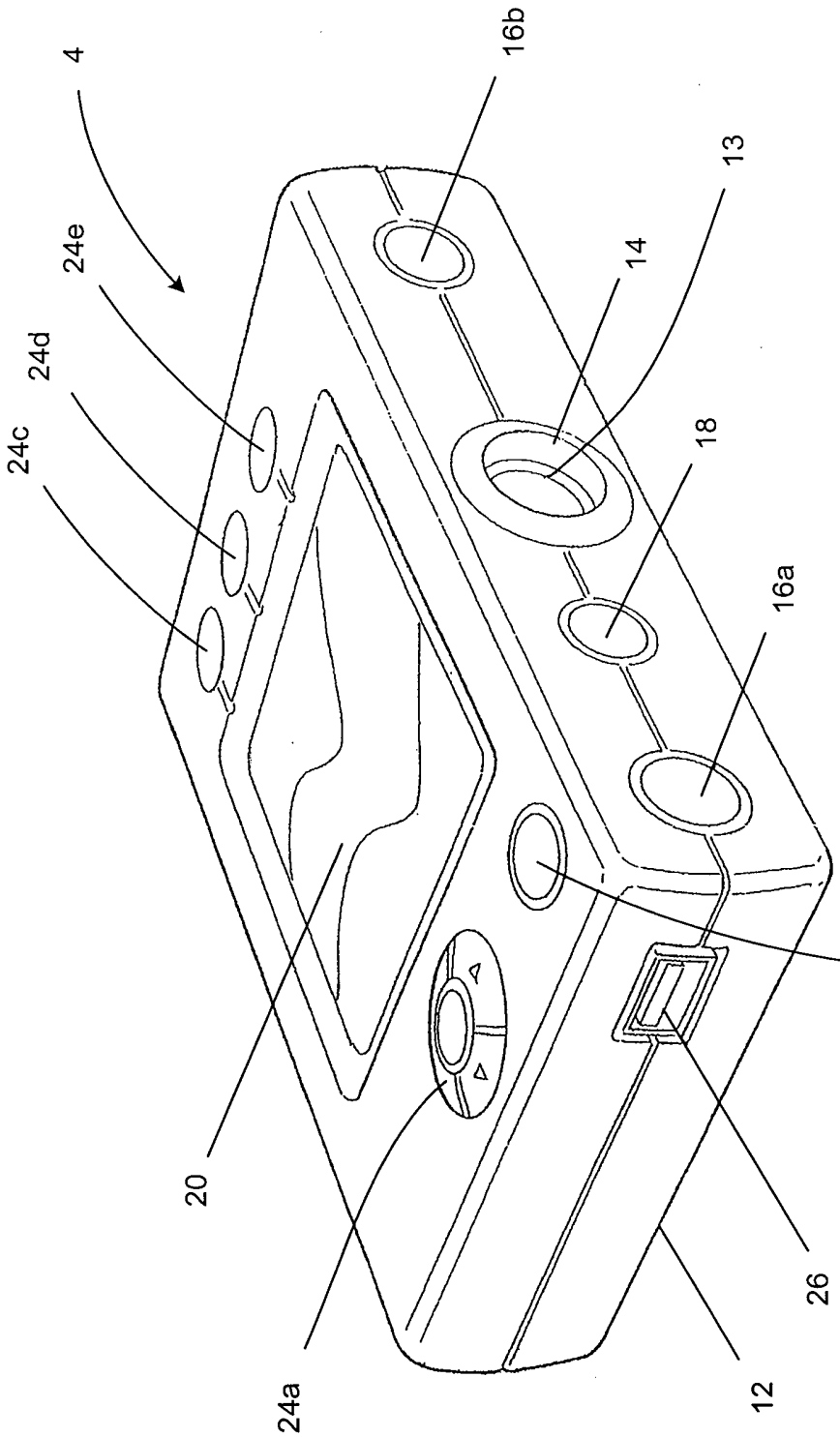


FIG. 3a

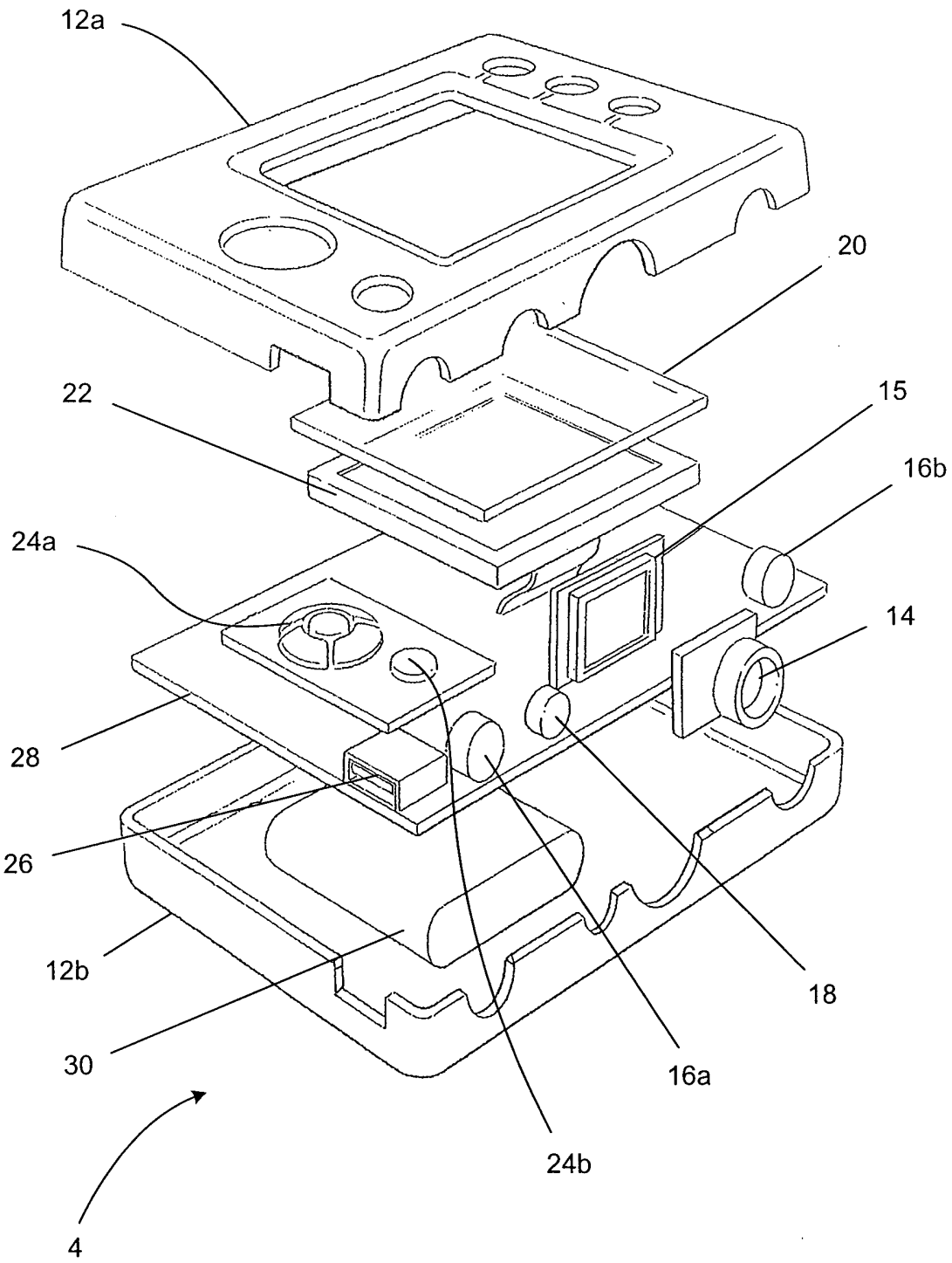


FIG. 3b

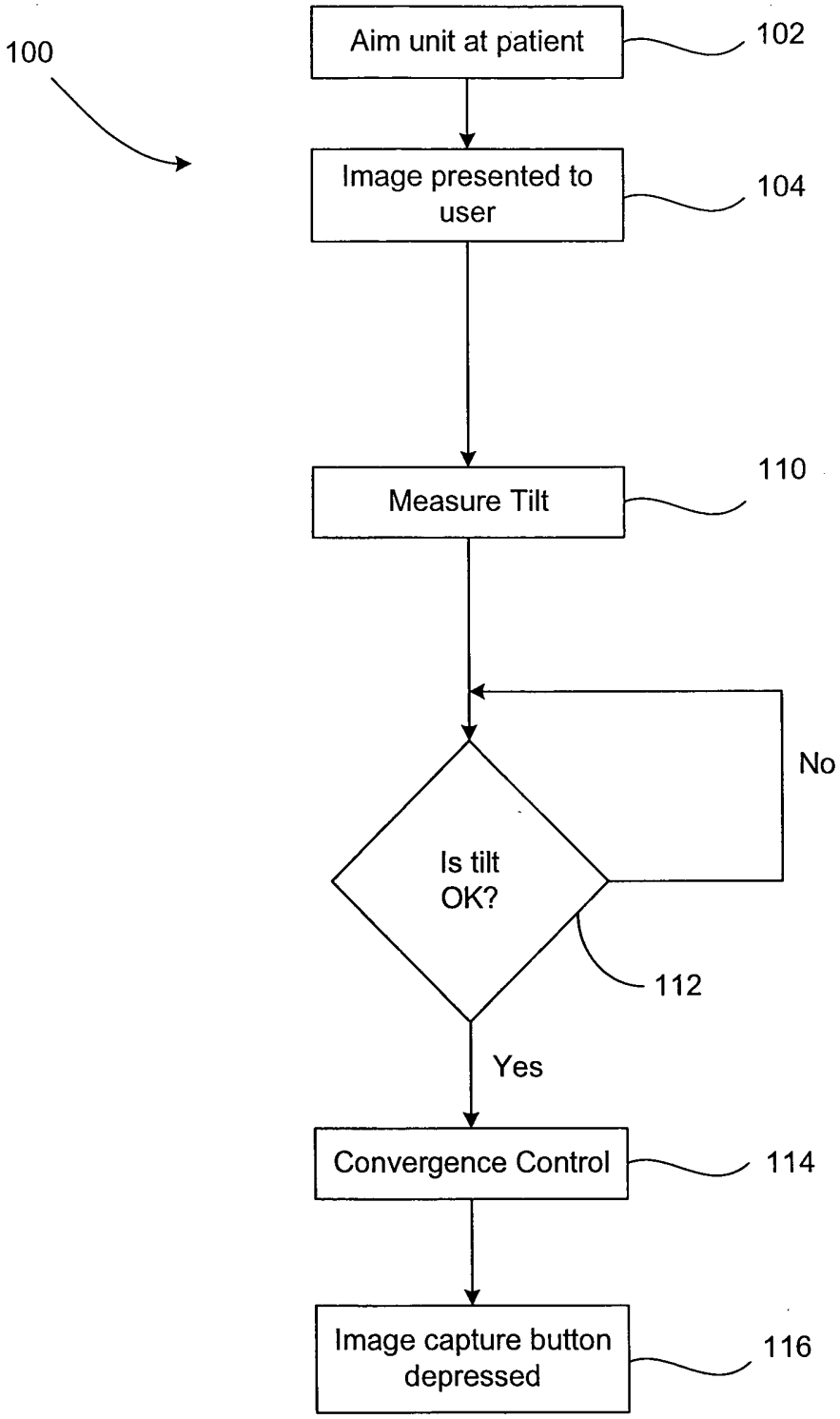

100
Aim unit at patient
102
Image presented to user
104
Measure Tilt
110
No
Is tilt OK?
112
Yes
Convergence Control
114
Image capture button depressed
116

FIG. 4a

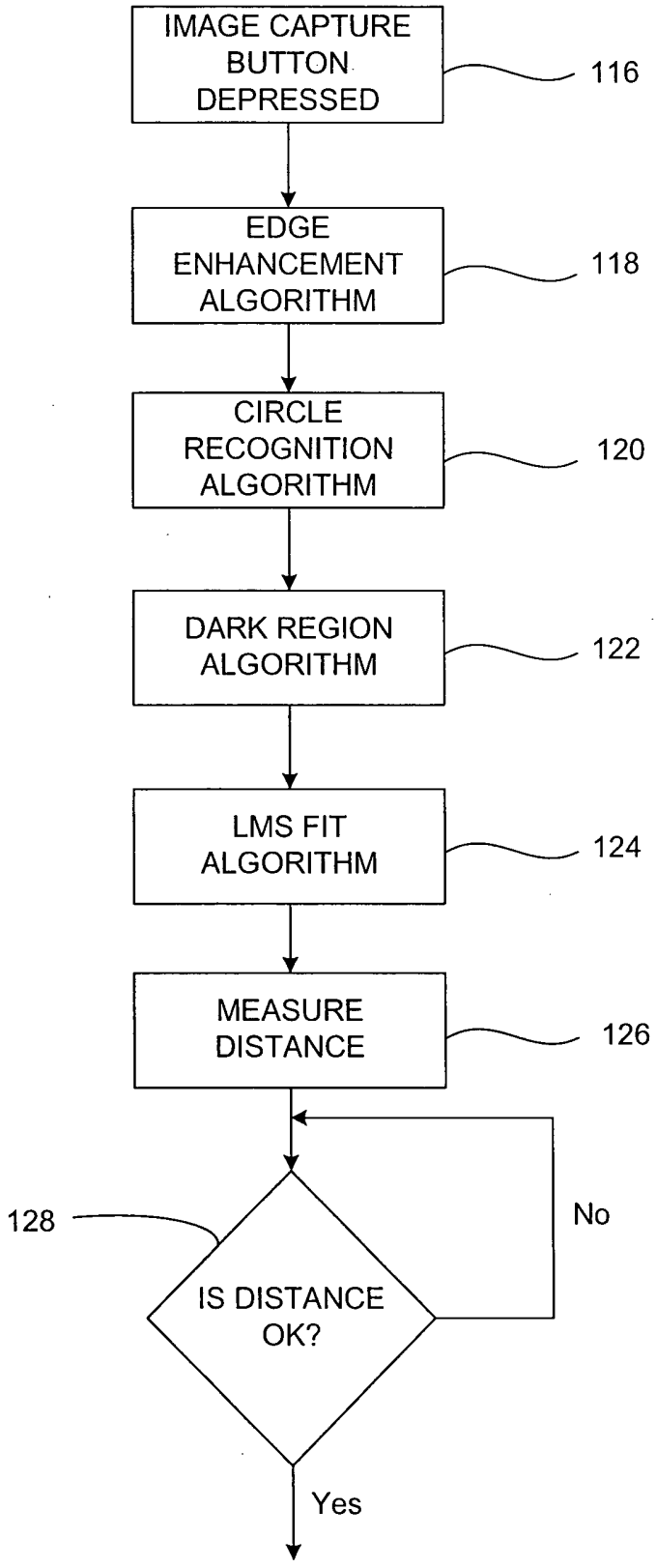

IMAGE CAPTURE BUTTON DEPRESSED
116
EDGE ENHANCEMENT ALGORITHM
118
CIRCLE RECOGNITION ALGORITHM
120
DARK REGION ALGORITHM
122
LMS FIT ALGORITHM
124
MEASURE DISTANCE
126
128
IS DISTANCE OK?
No
Yes

FIG. 4b

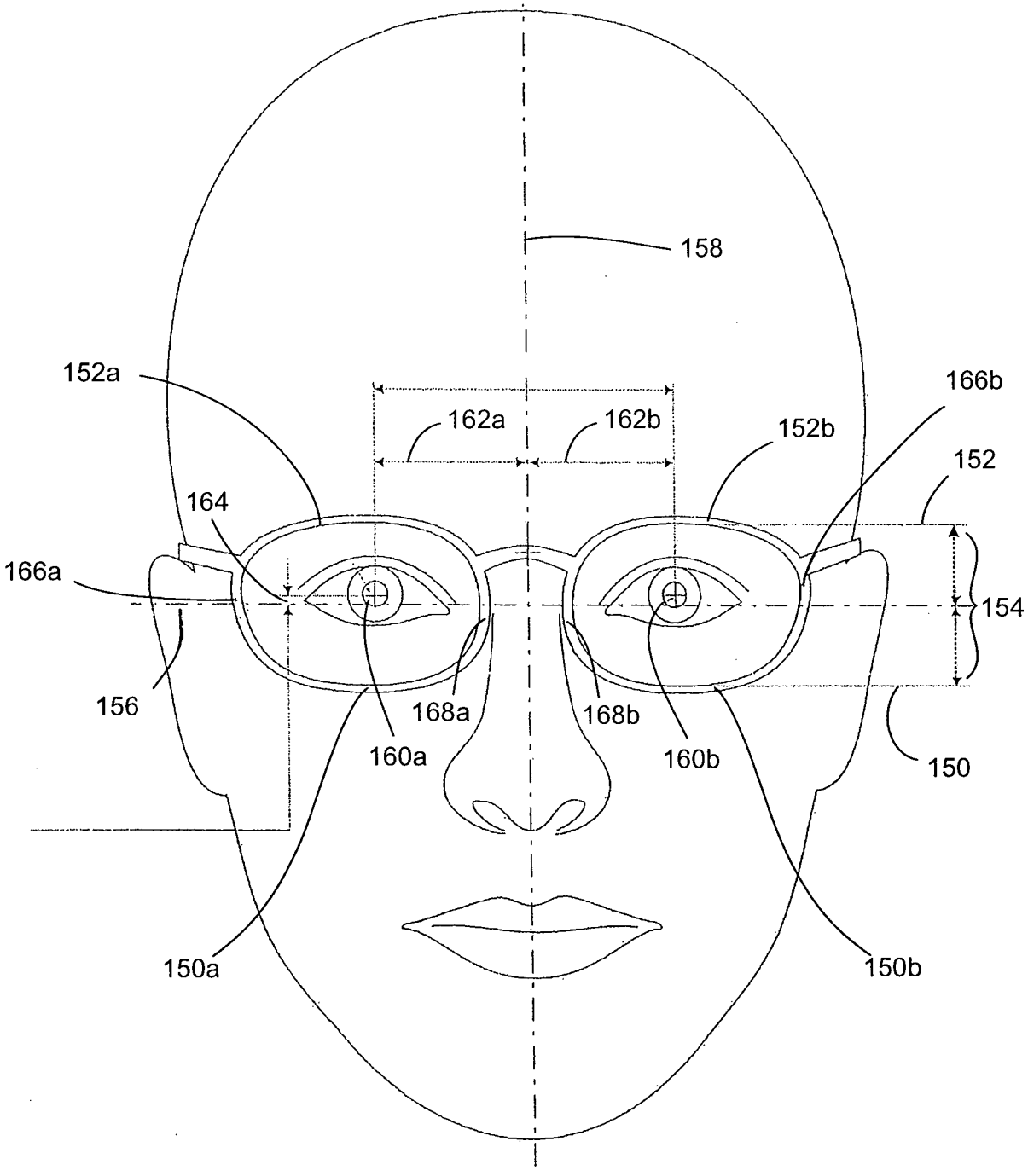

158
152a
166b
162a
162b
152b
152
164
166a
154
156
168a
168b
160a
160b
150
150a
150b

FIG. 5a

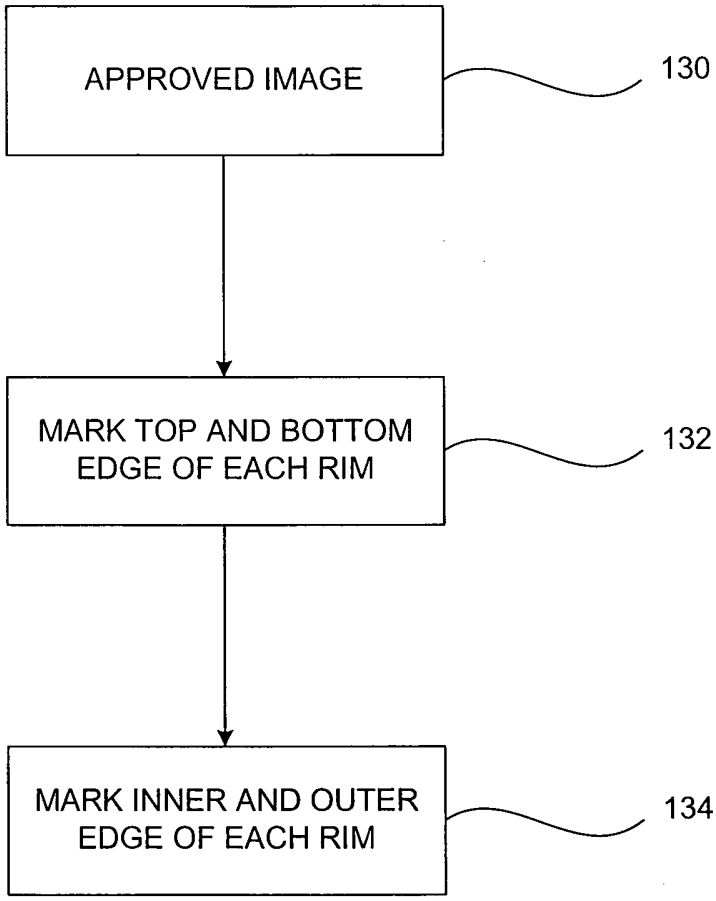

APPROVED IMAGE
130
MARK TOP AND BOTTOM EDGE OF EACH RIM
132
MARK INNER AND OUTER EDGE OF EACH RIM
134

FIG. 5b

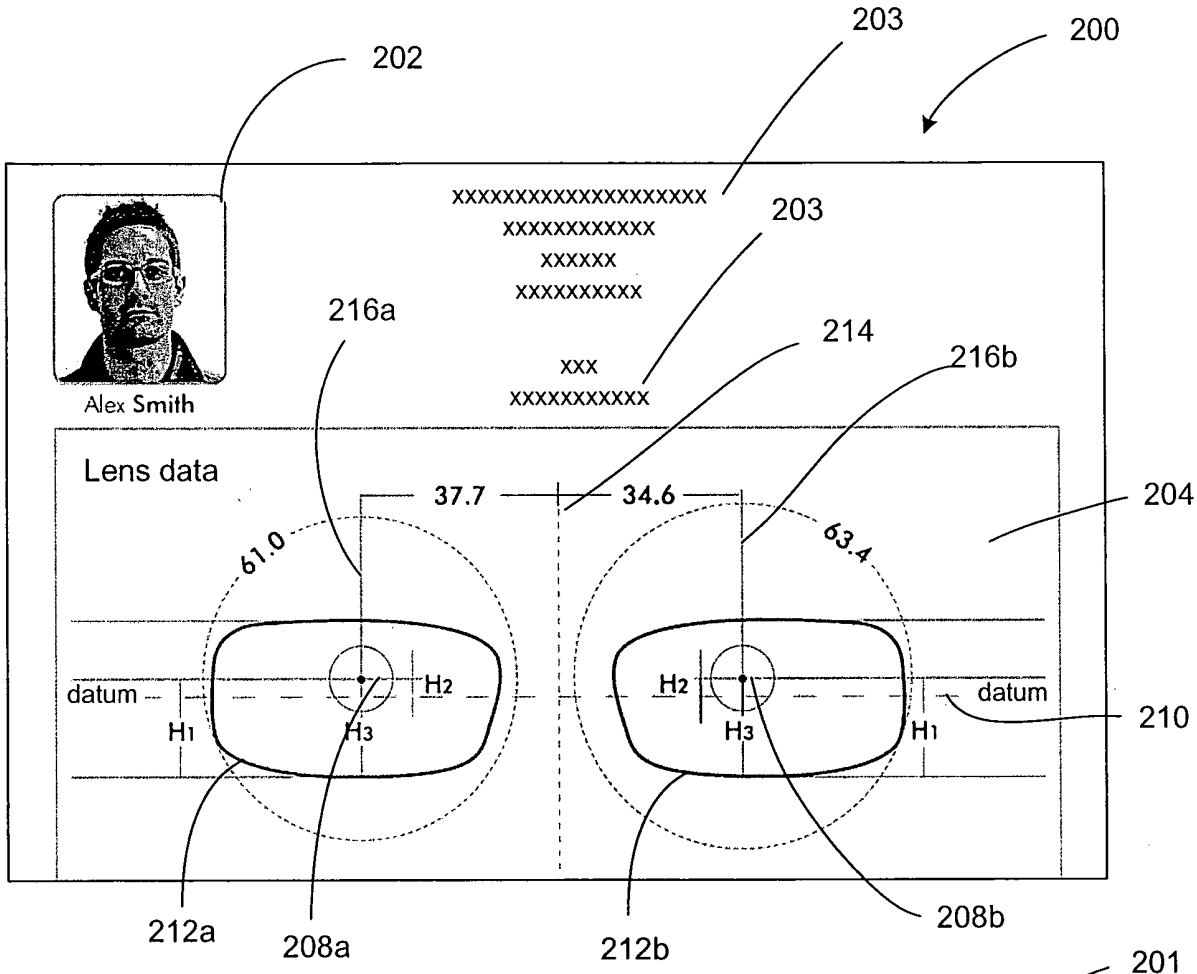

203
200
202
xxxxxxxxxxxxxxxxxxx
xxxxxxxxxxxx
xxxxxx
xxxxxxxxxx
203
216a
214
216b
xxx
xxxxxxxxxxx
Alex Smith
Lens data
37.7
34.6
204
61.0
63.4
datum
H1
H2
H3
H2
H3
H1
datum
210
212a
208a
212b
208b

FIG. 6a

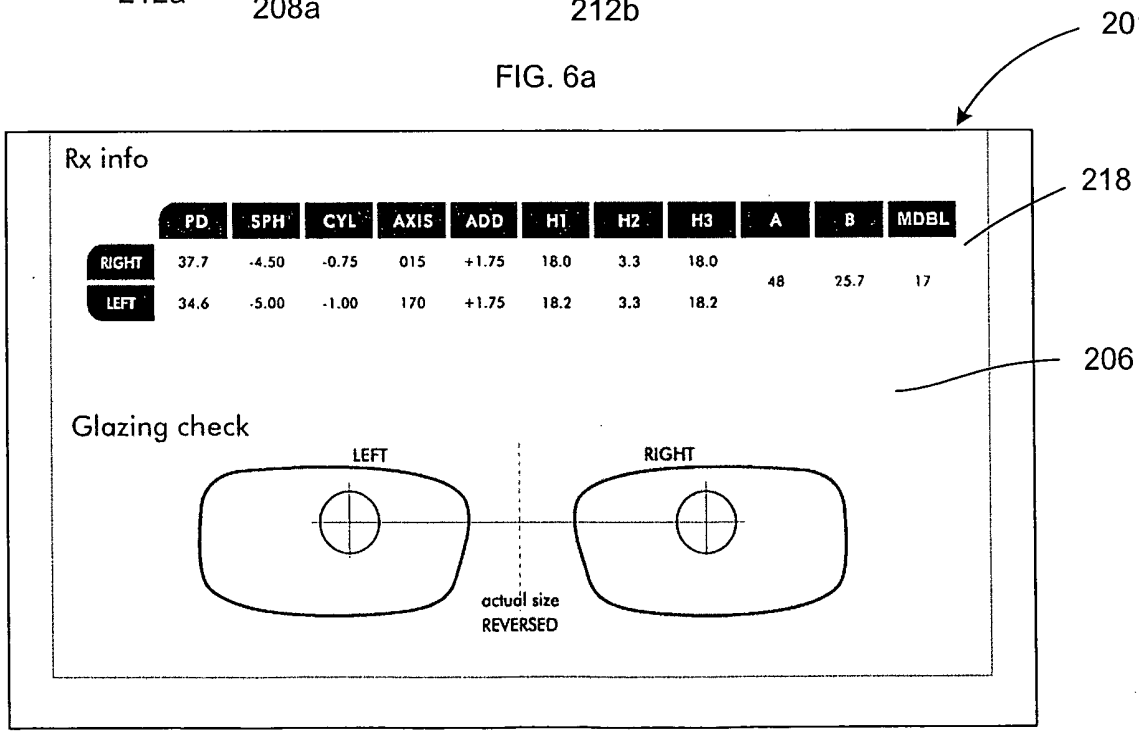

201
Rx info
218
PD
SPH
CYL
AXIS
ADD
H1
H2
H3
A
B
MDBL
RIGHT
37.7
-4.50
-0.75
015
+1.75
18.0
3.3
18.0
48
25.7
17
LEFT
34.6
-5.00
-1.00
170
+1.75
18.2
3.3
18.2
206
Glazing check
LEFT
RIGHT
actual size
REVERSED

FIG. 6b