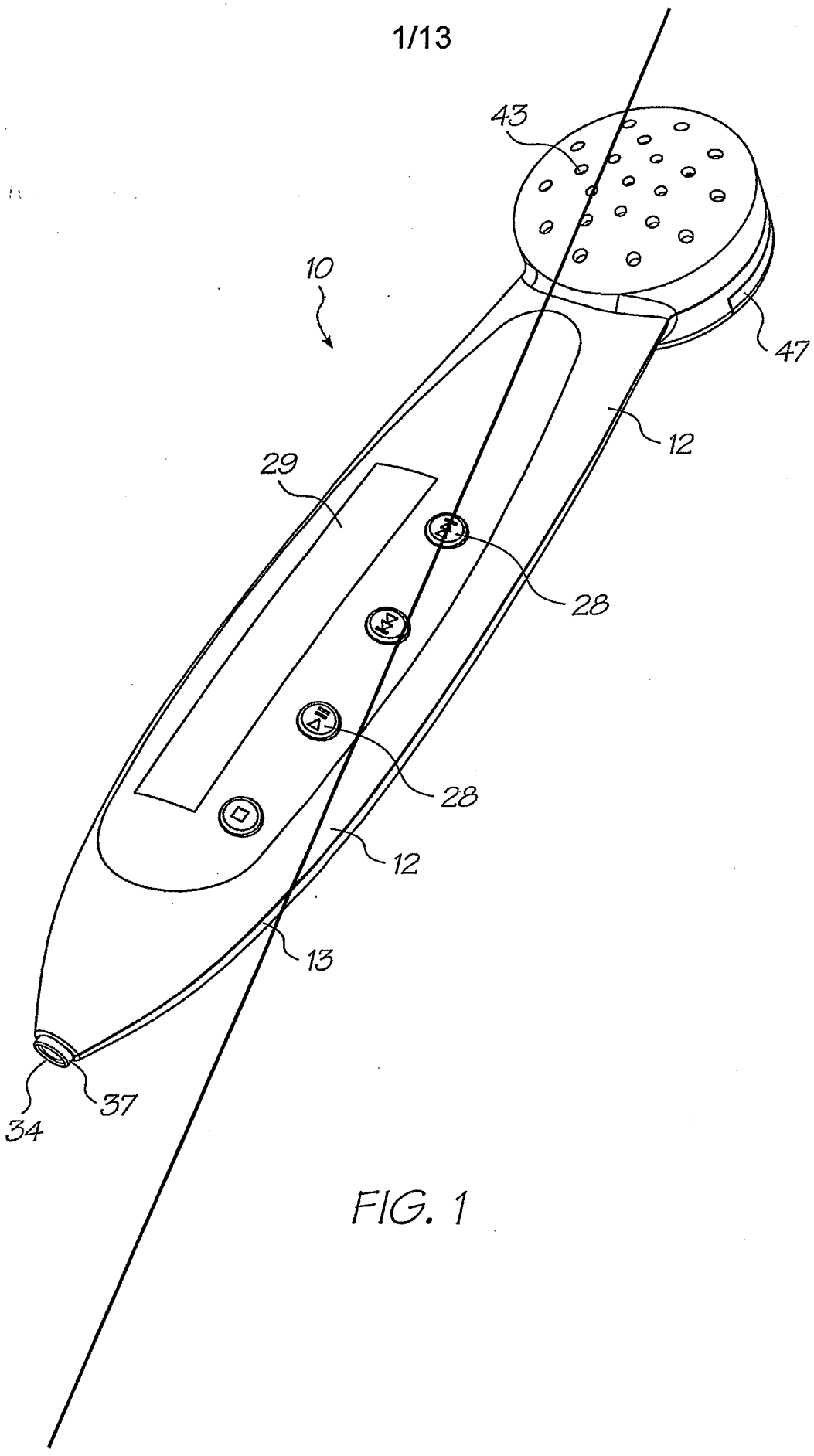


FIG. 1

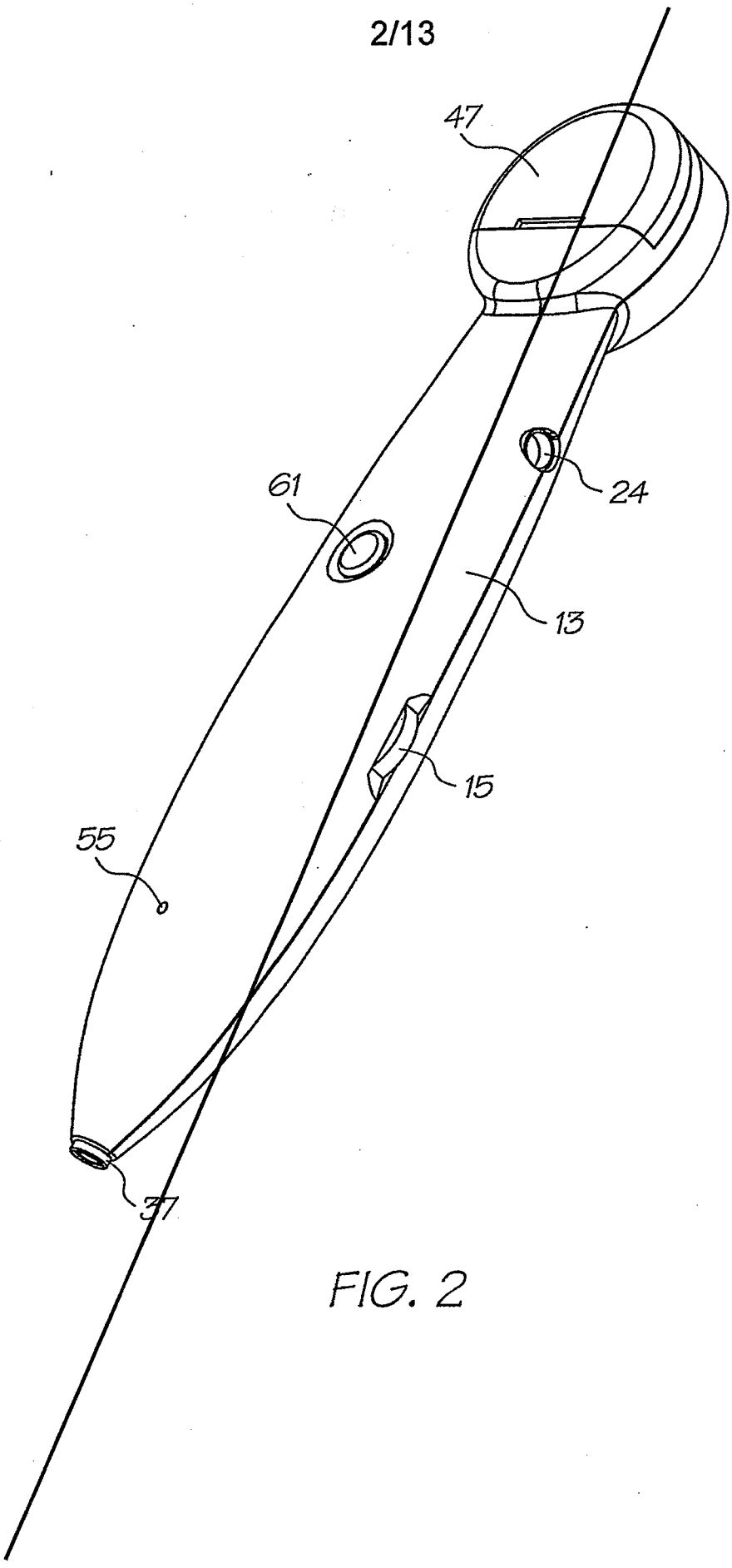


FIG. 2

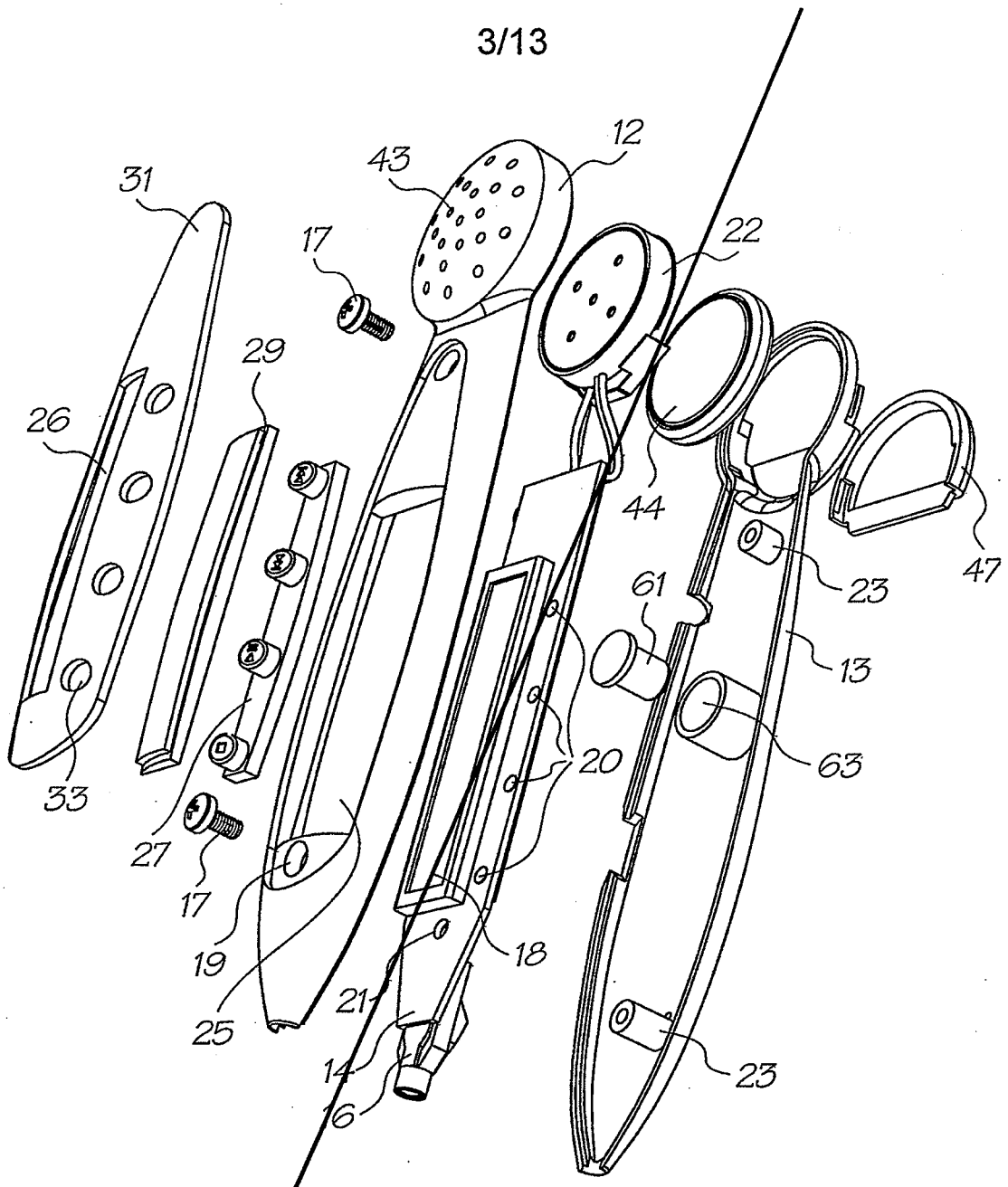
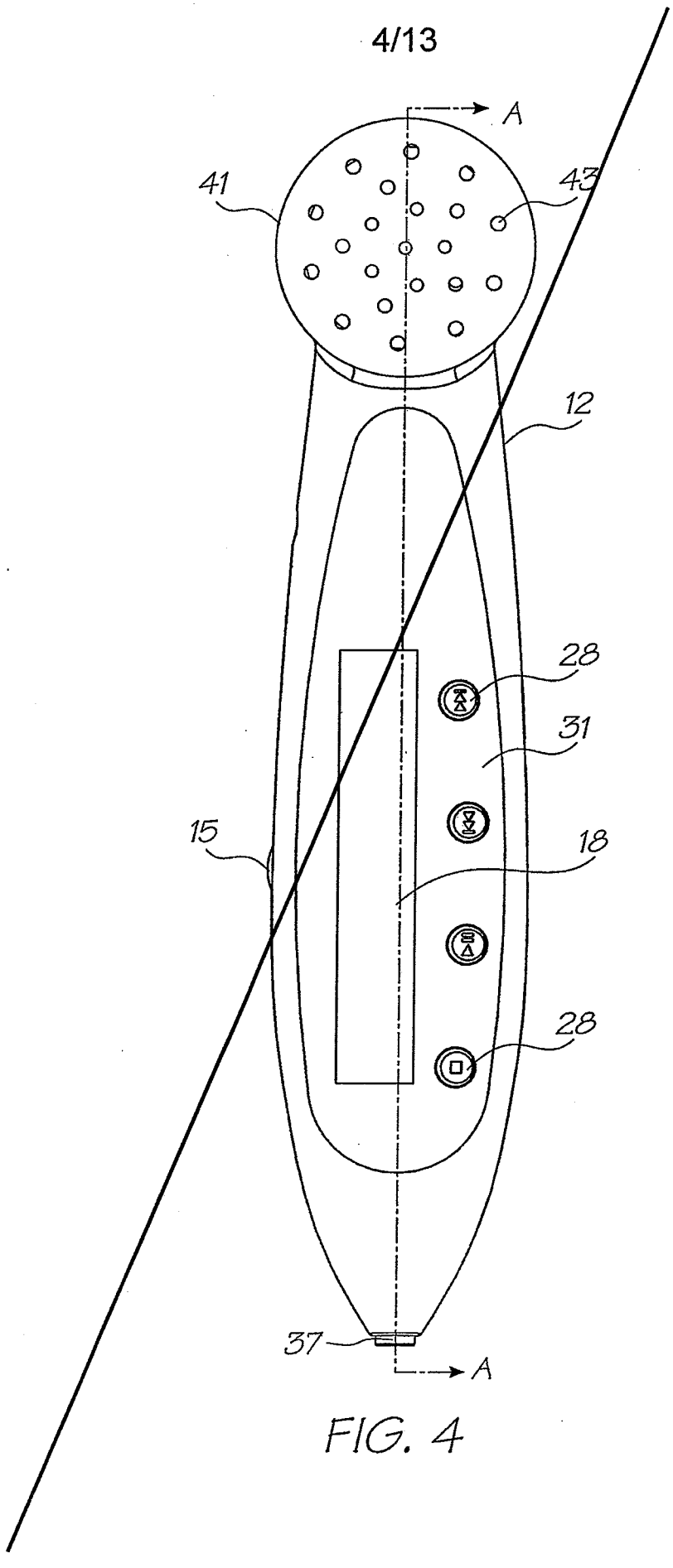


FIG. 3



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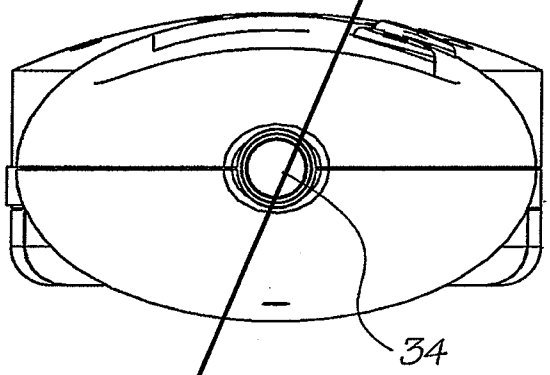


FIG. 5

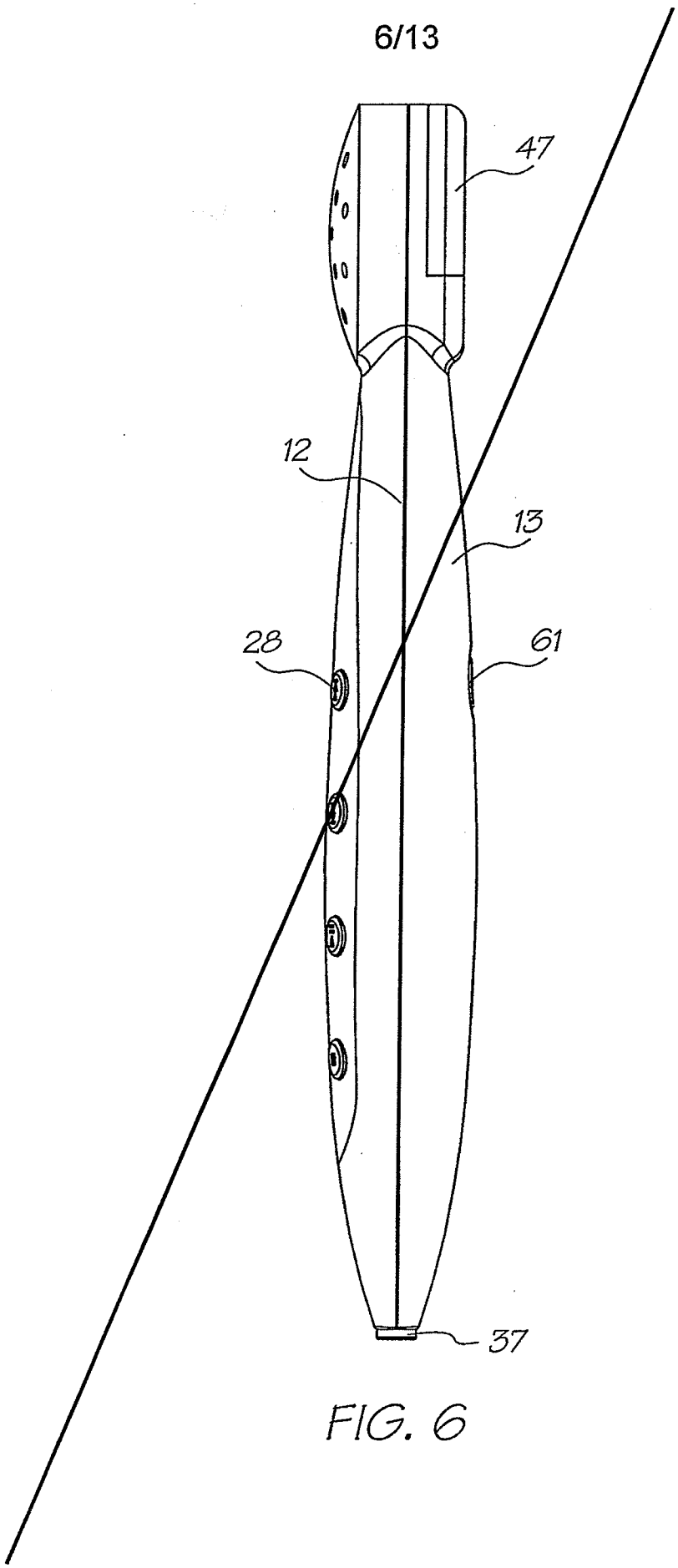


FIG. 6

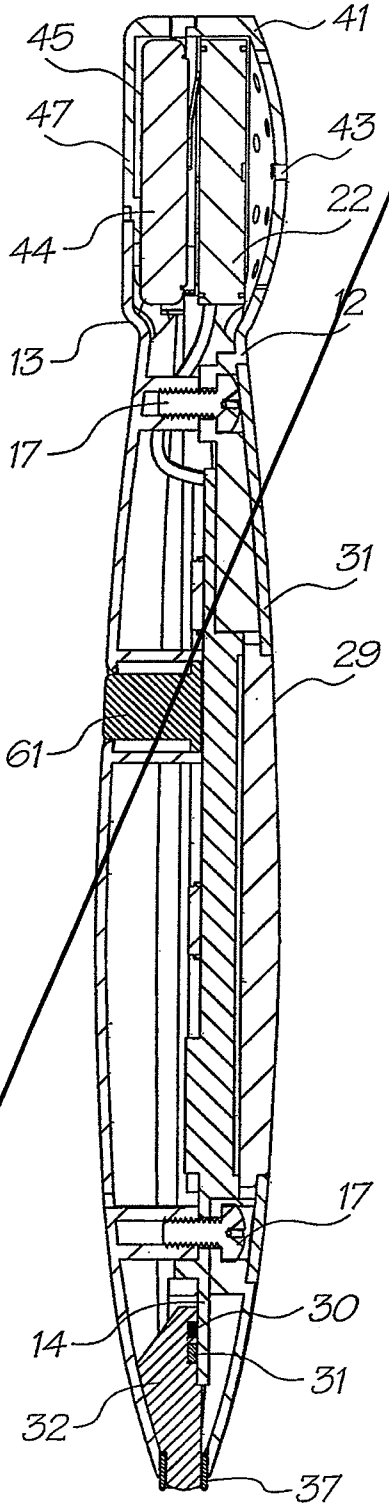


FIG. 7

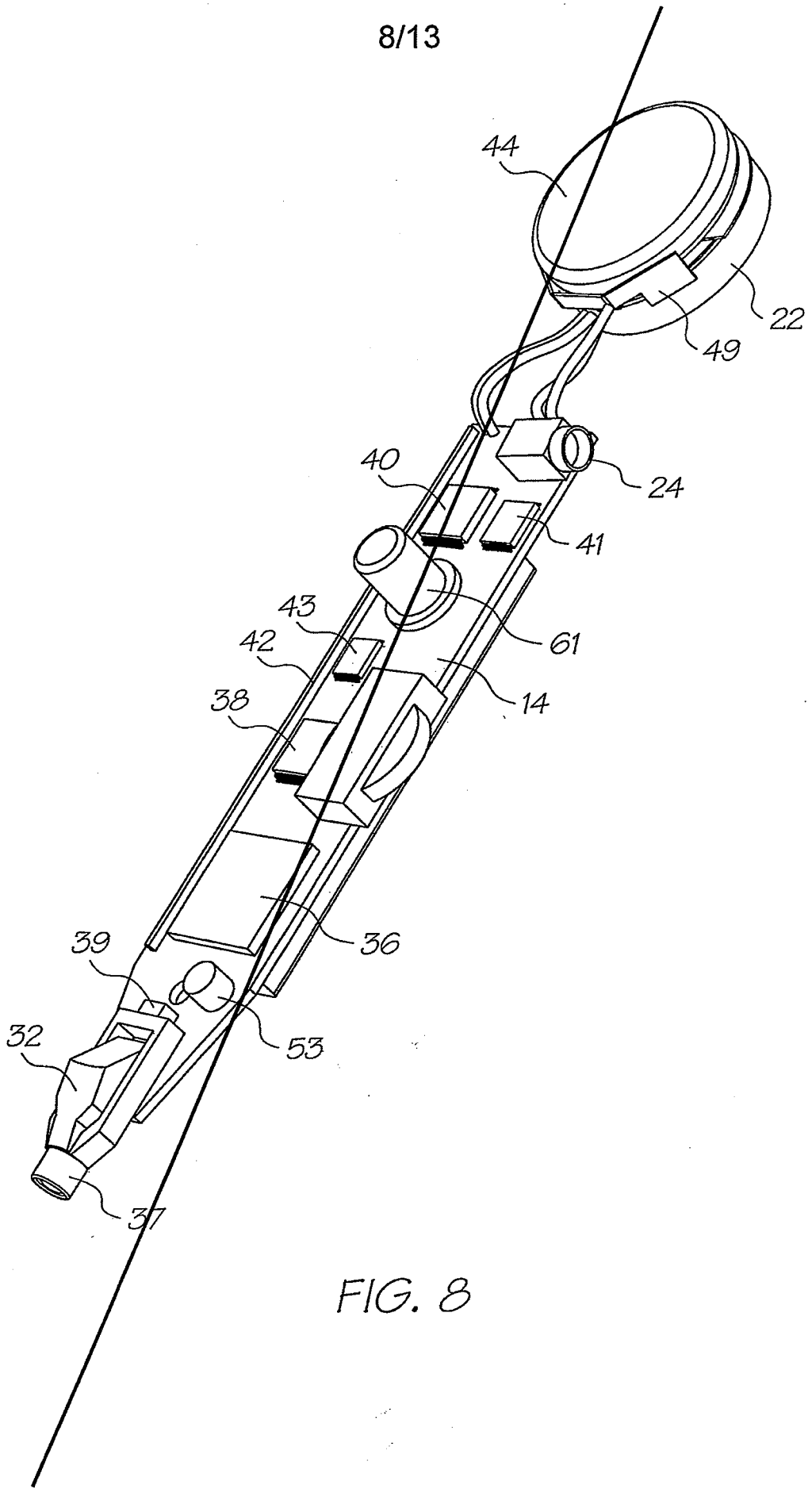


FIG. 8

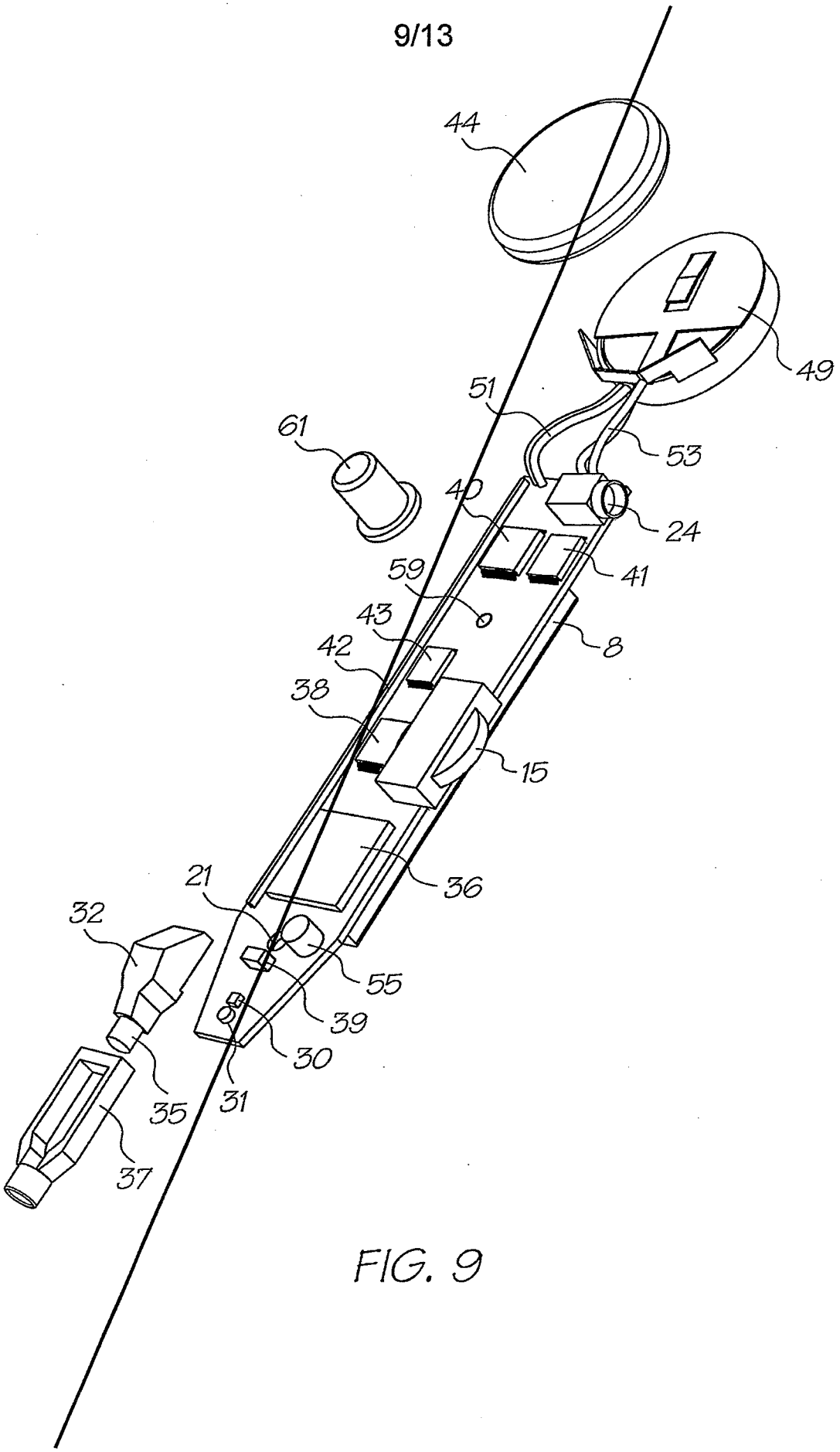


FIG. 9

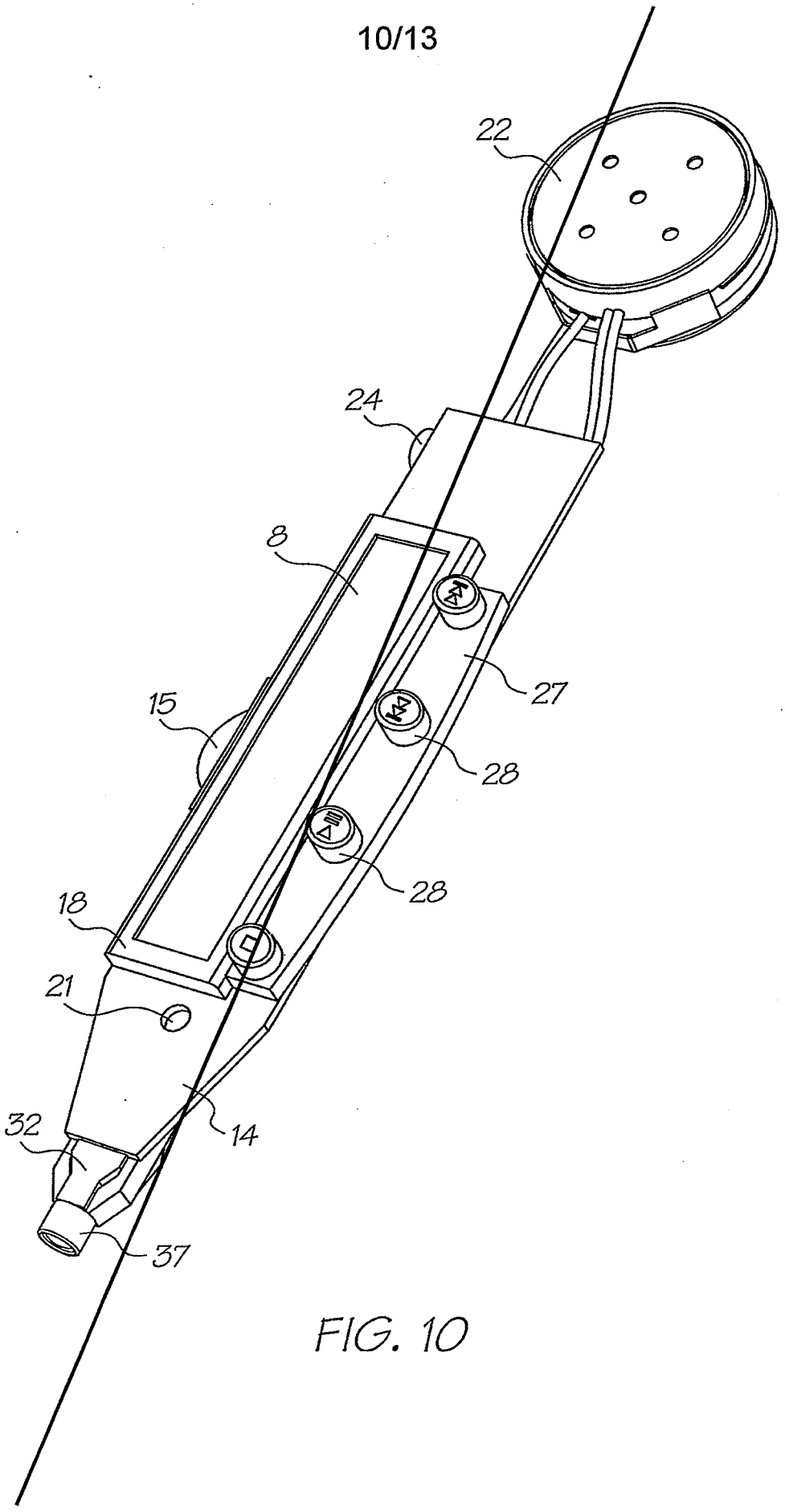
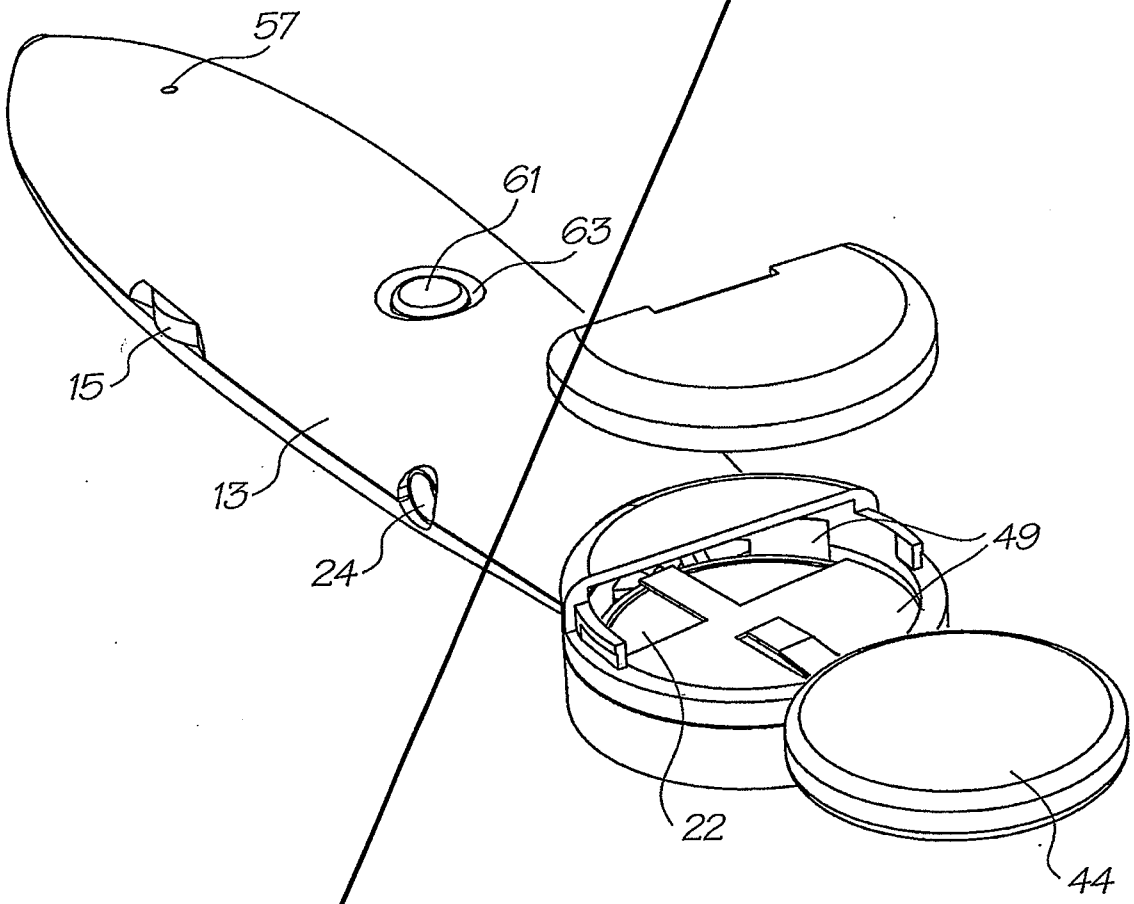


FIG. 10



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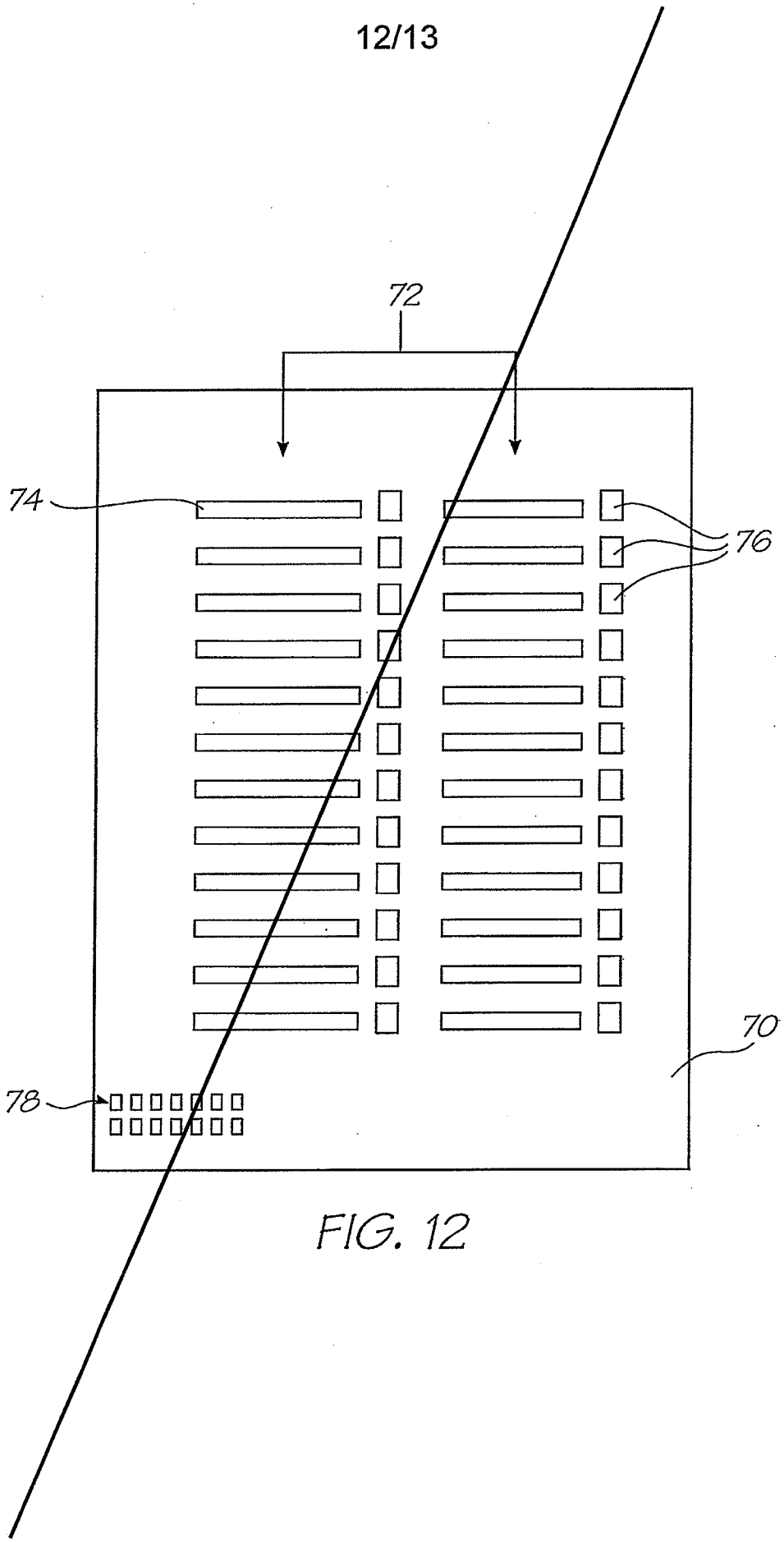

FIG. 12

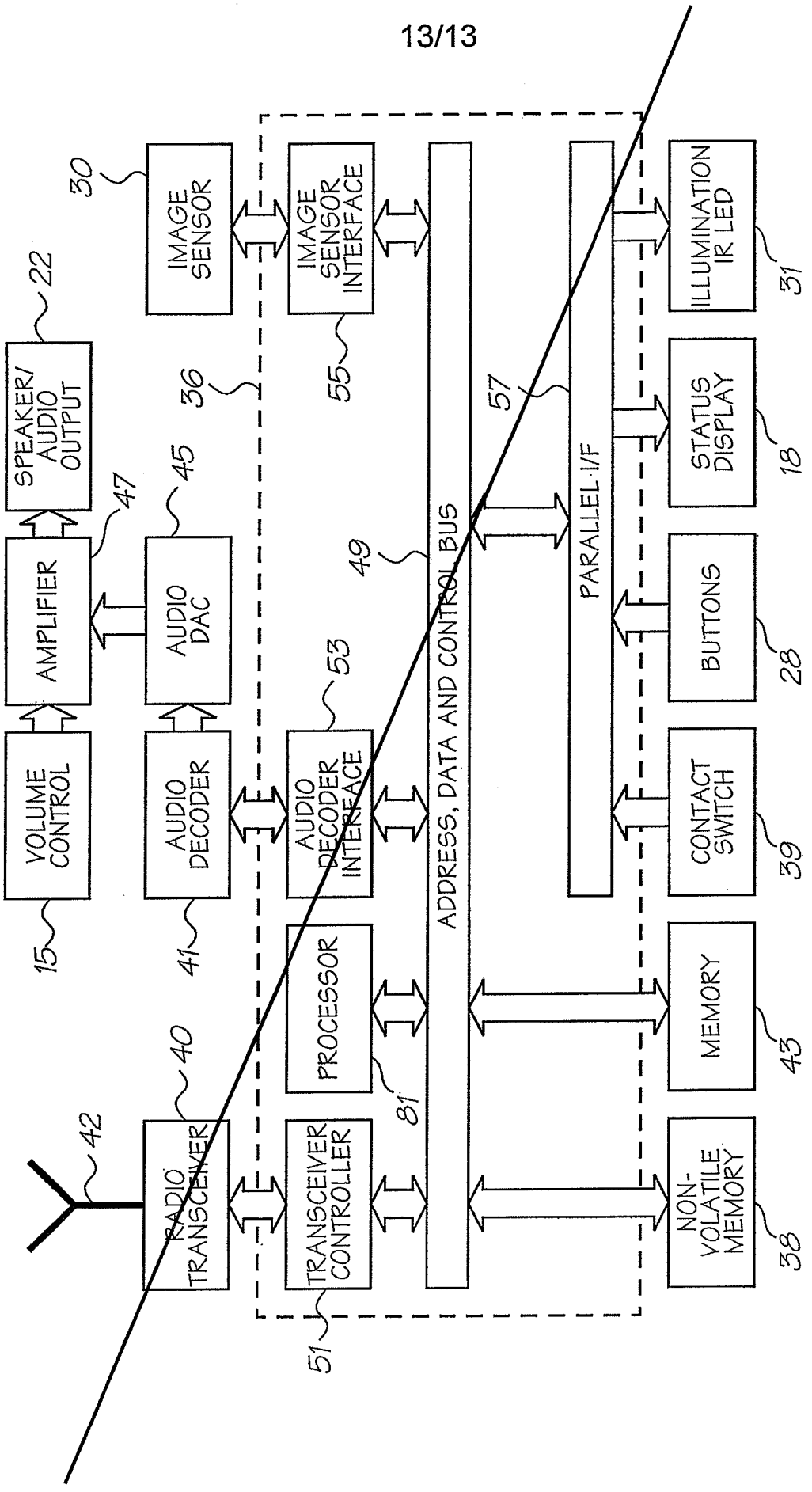
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IMAGE SENSOR
IMAGE SENSOR INTERFACE
ILLUMINATION IR LED
31
22
SPEAKER/ AUDIO OUTPUT
55
36
57
STATUS DISPLAY
18
47
45
49
PARALLEL I/F
AMPLIFIER
AUDIO DAC
ADDRESS, DATA AND CONTROL BUS
BUTTONS
28
53
VOLUME CONTROL
AUDIO DECODER
AUDIO DECODER INTERFACE
CONTACT SWITCH
39
15
41
PROCESSOR
MEMORY
43
40
81
42
RADIO TRANSCEIVER
TRANSCEIVER CONTROLLER
NON-VOLATILE MEMORY
38
51

FIG. 13

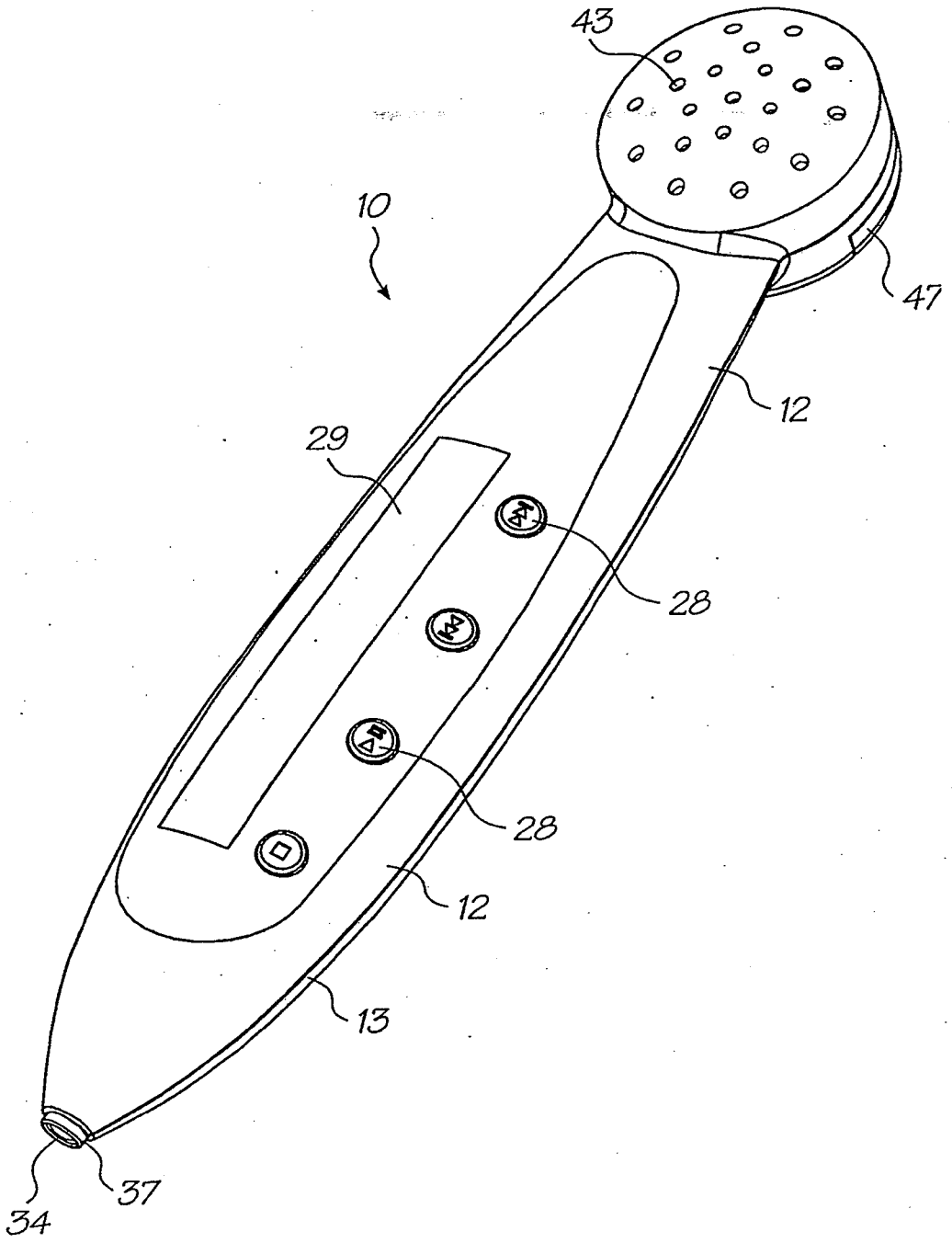
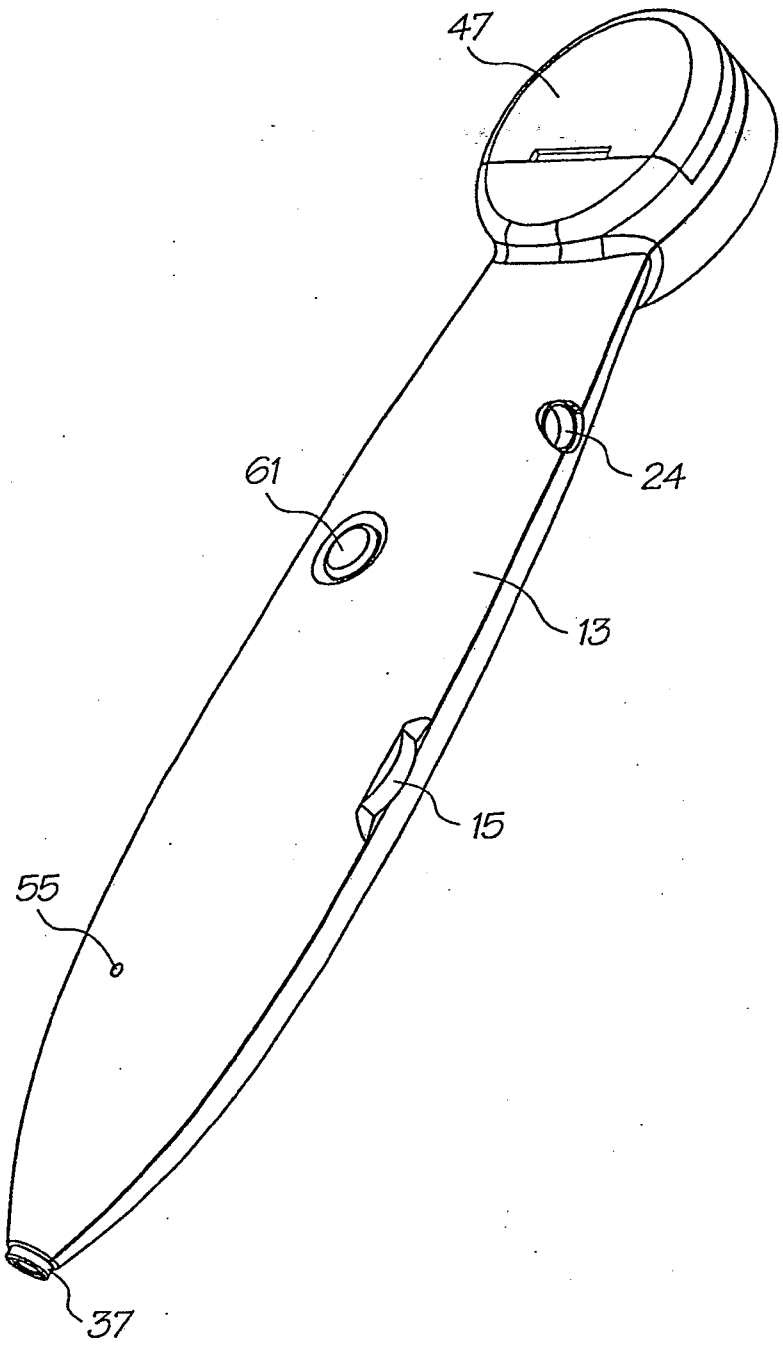


FIG. 1



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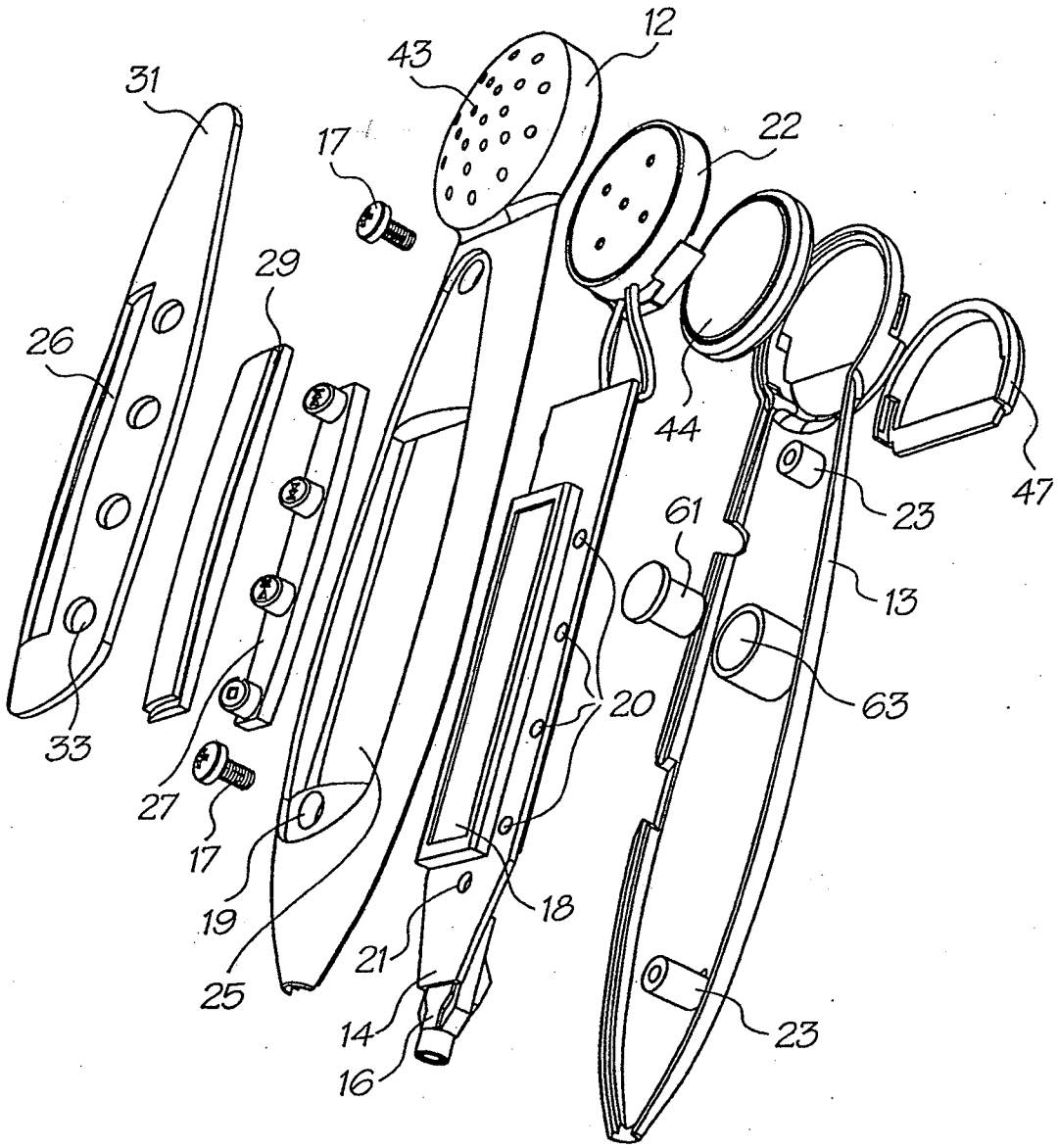
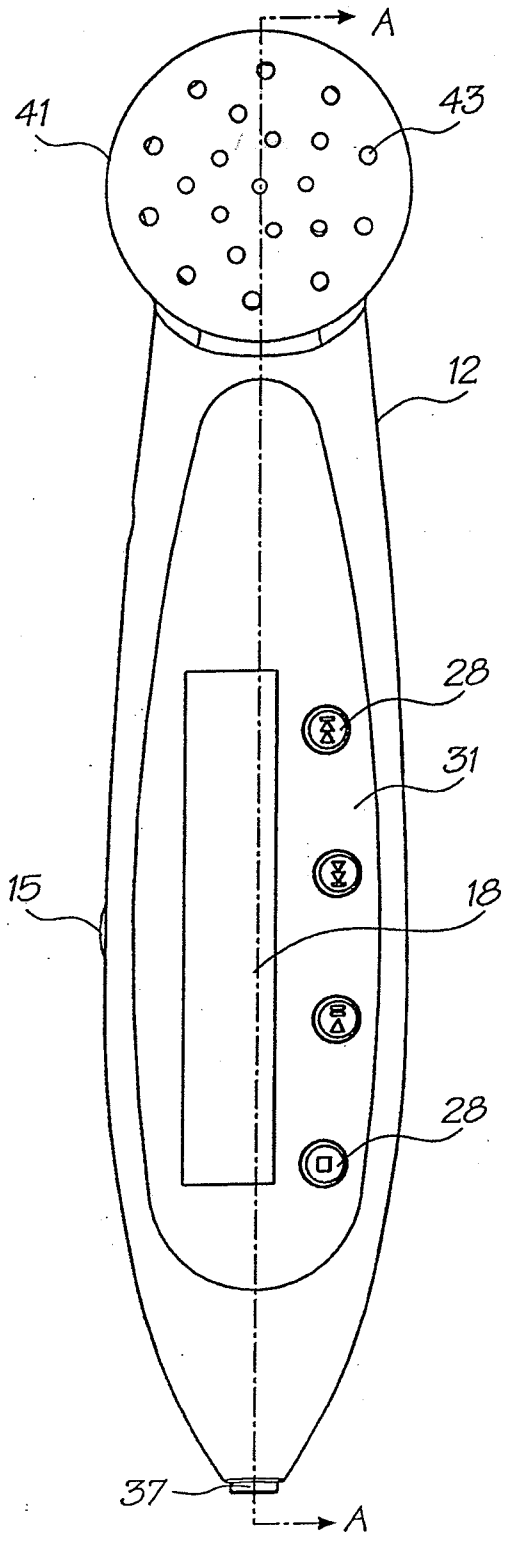


FIG. 3



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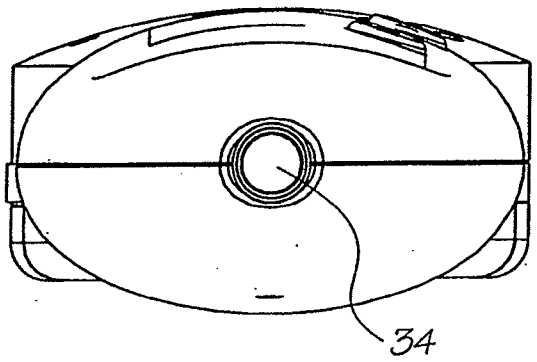

FIG. 5

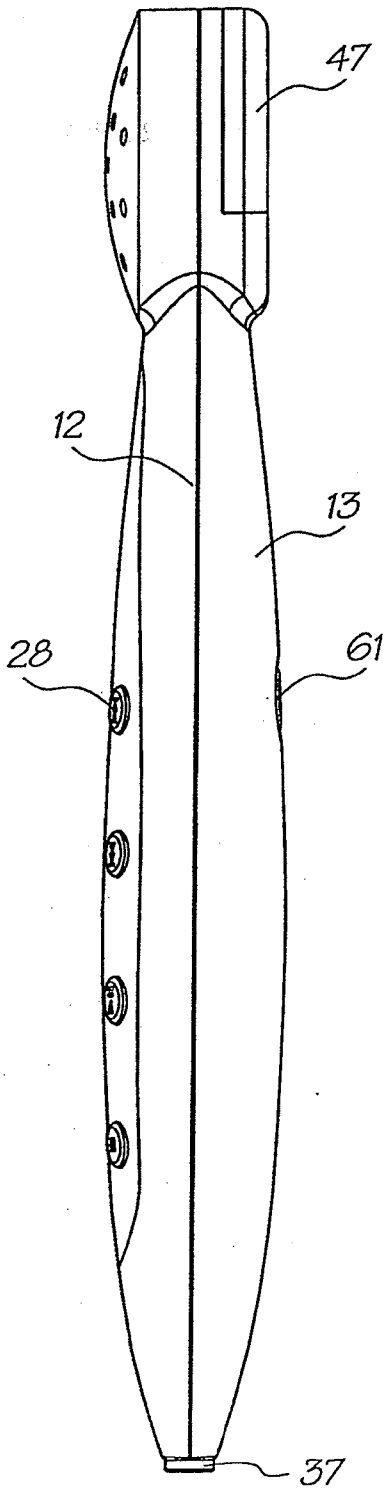

FIG. 6

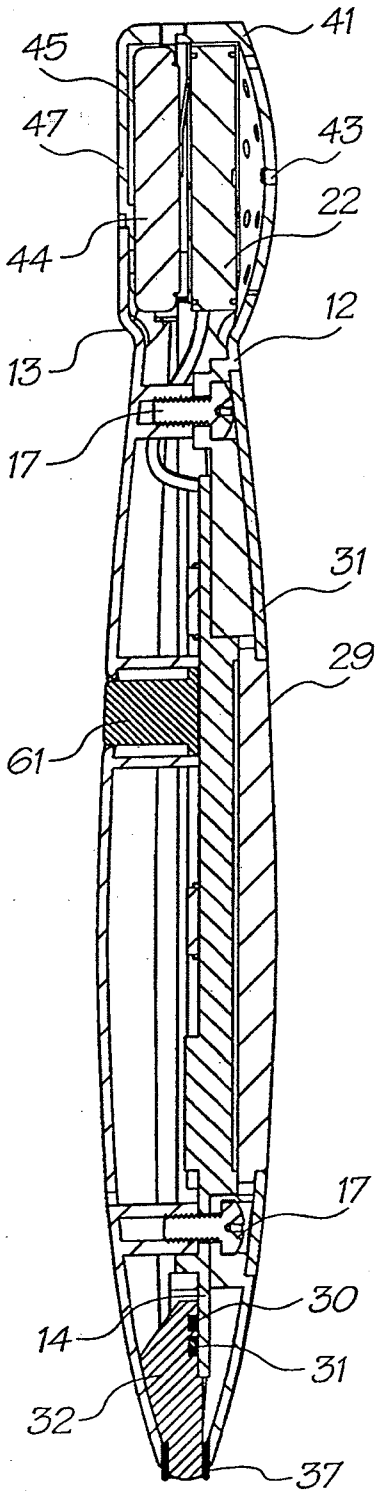

FIG. 7

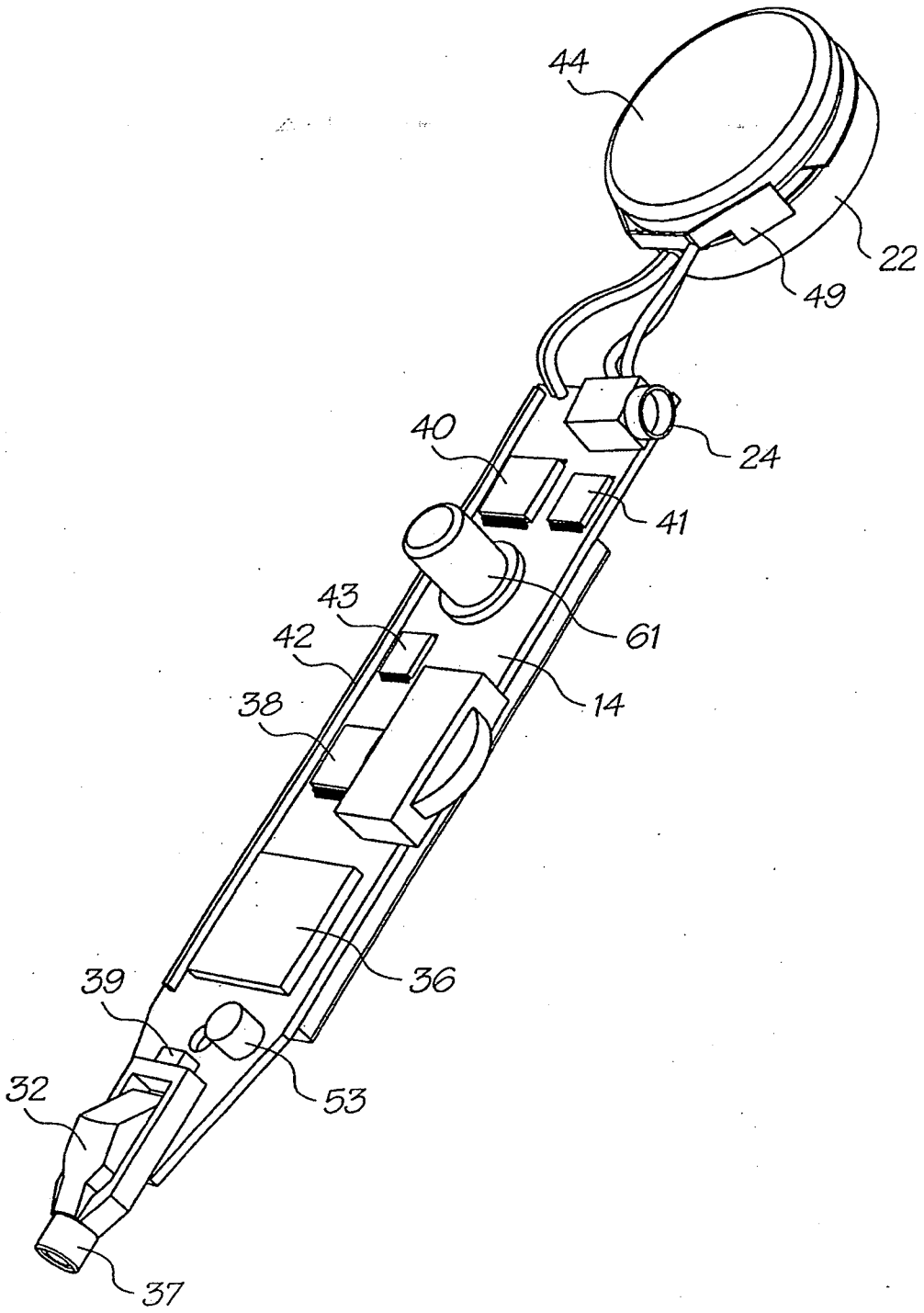

FIG. 8

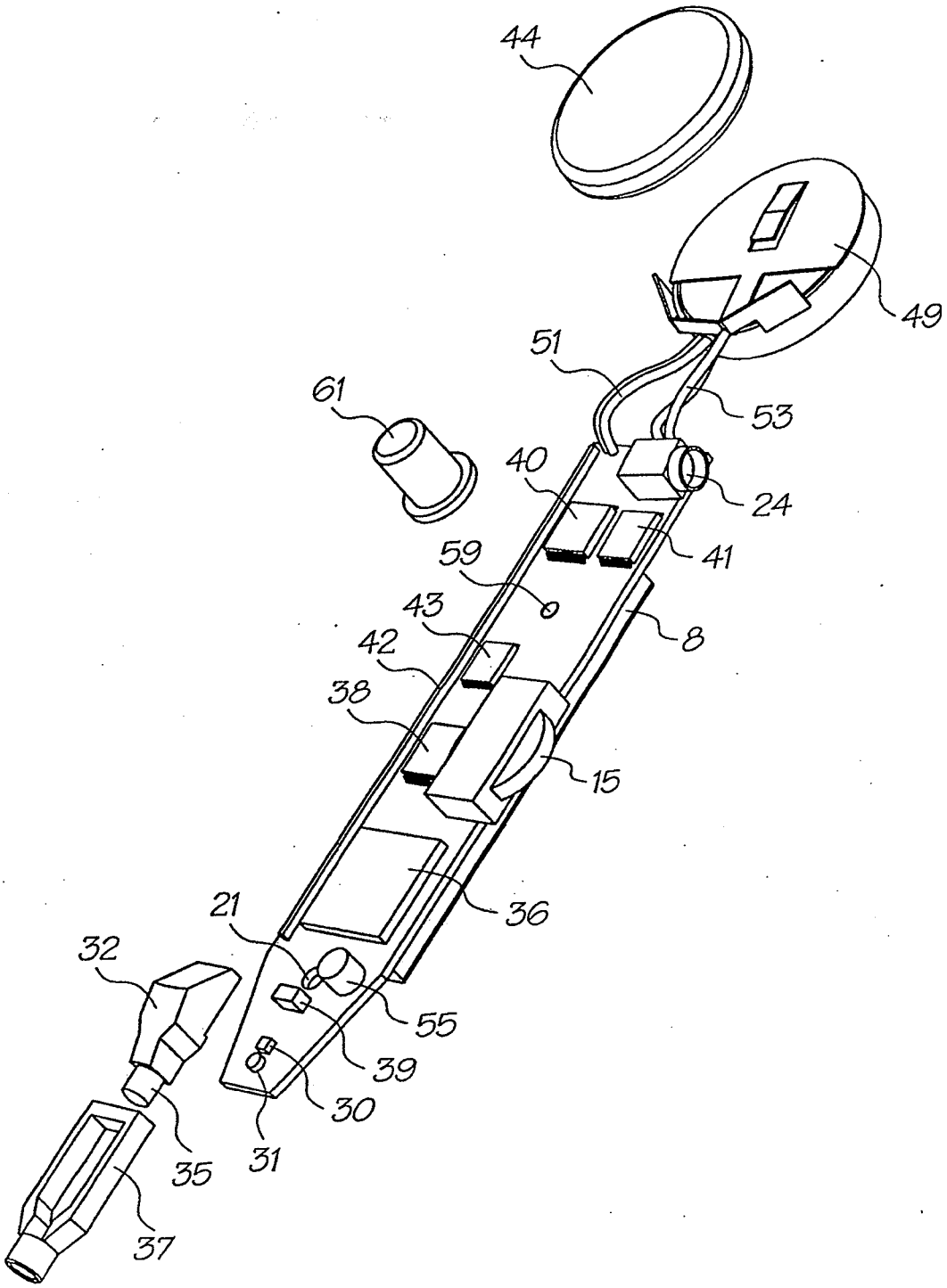

FIG. 9

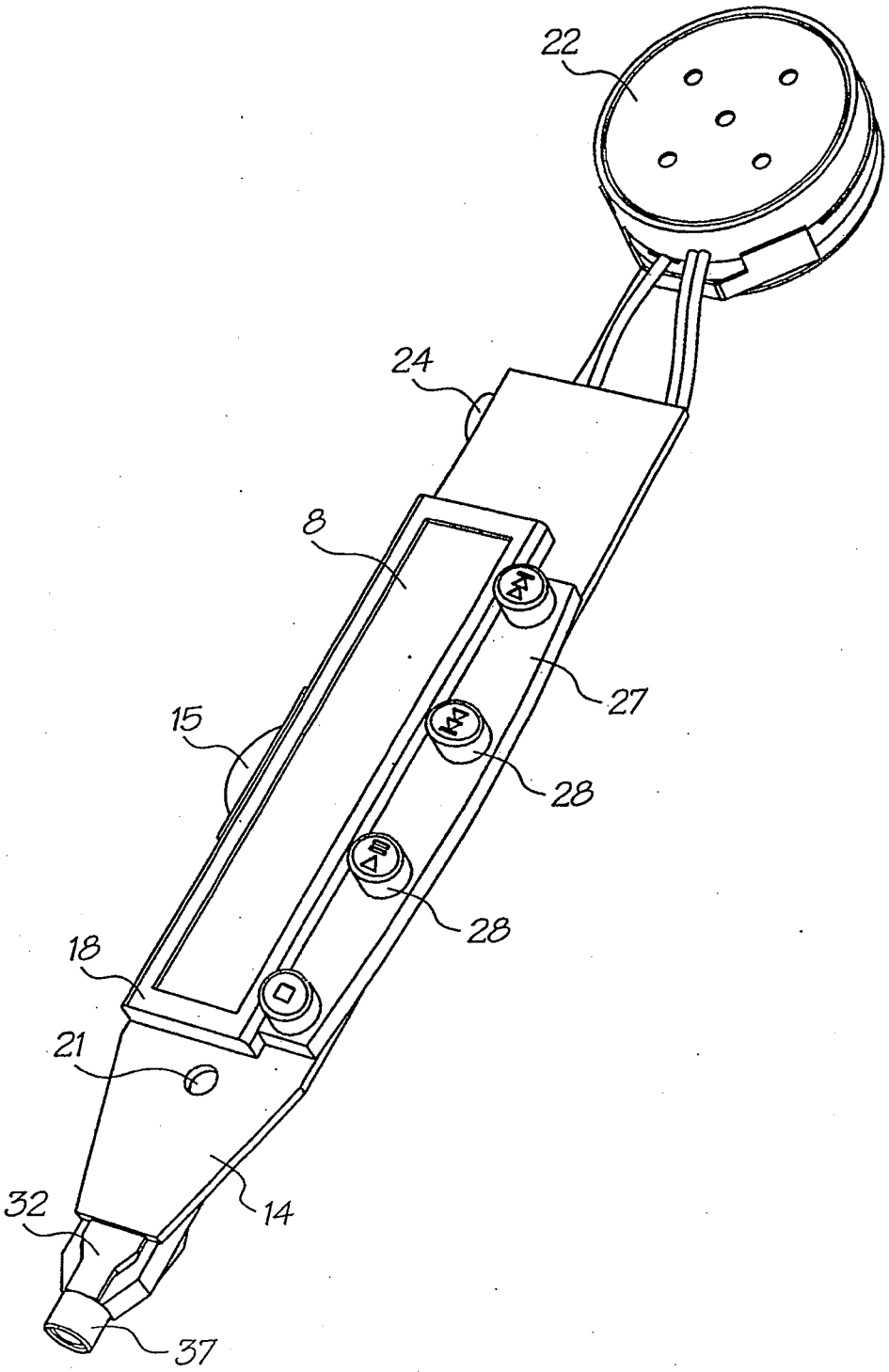

FIG. 10

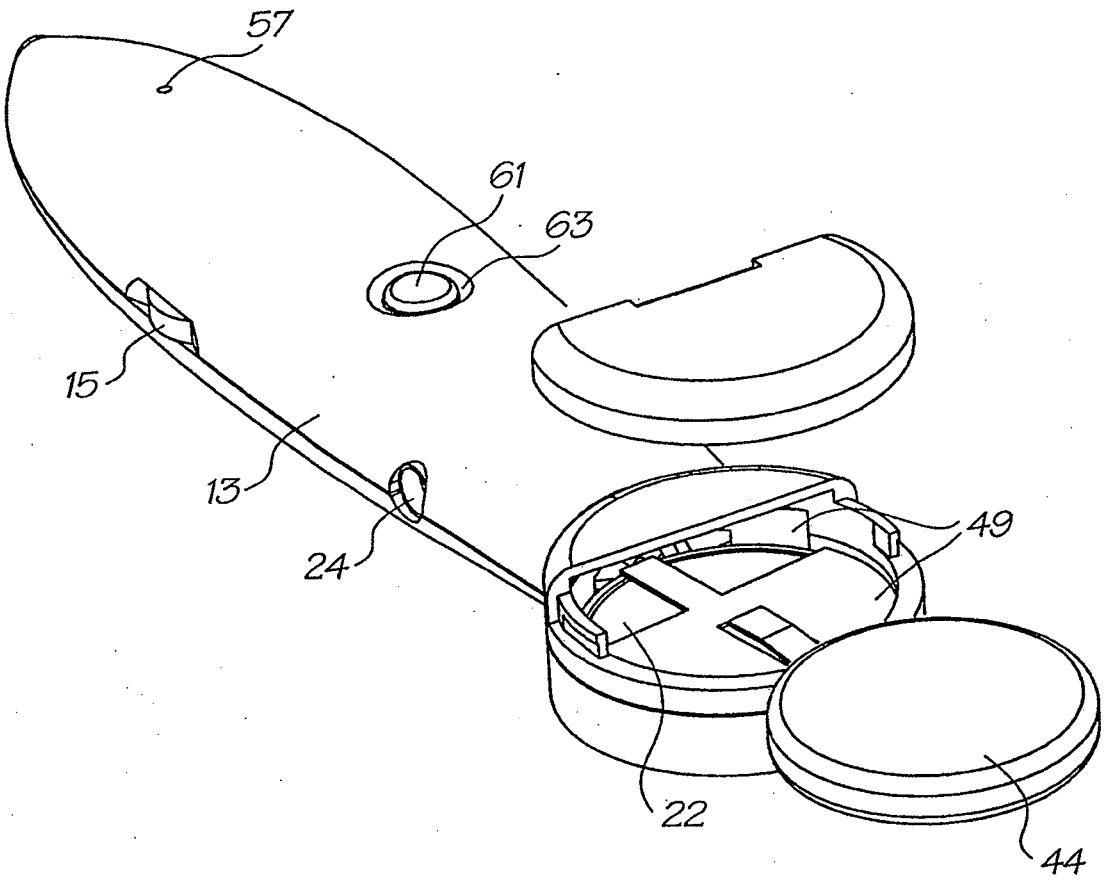

FIG. 11

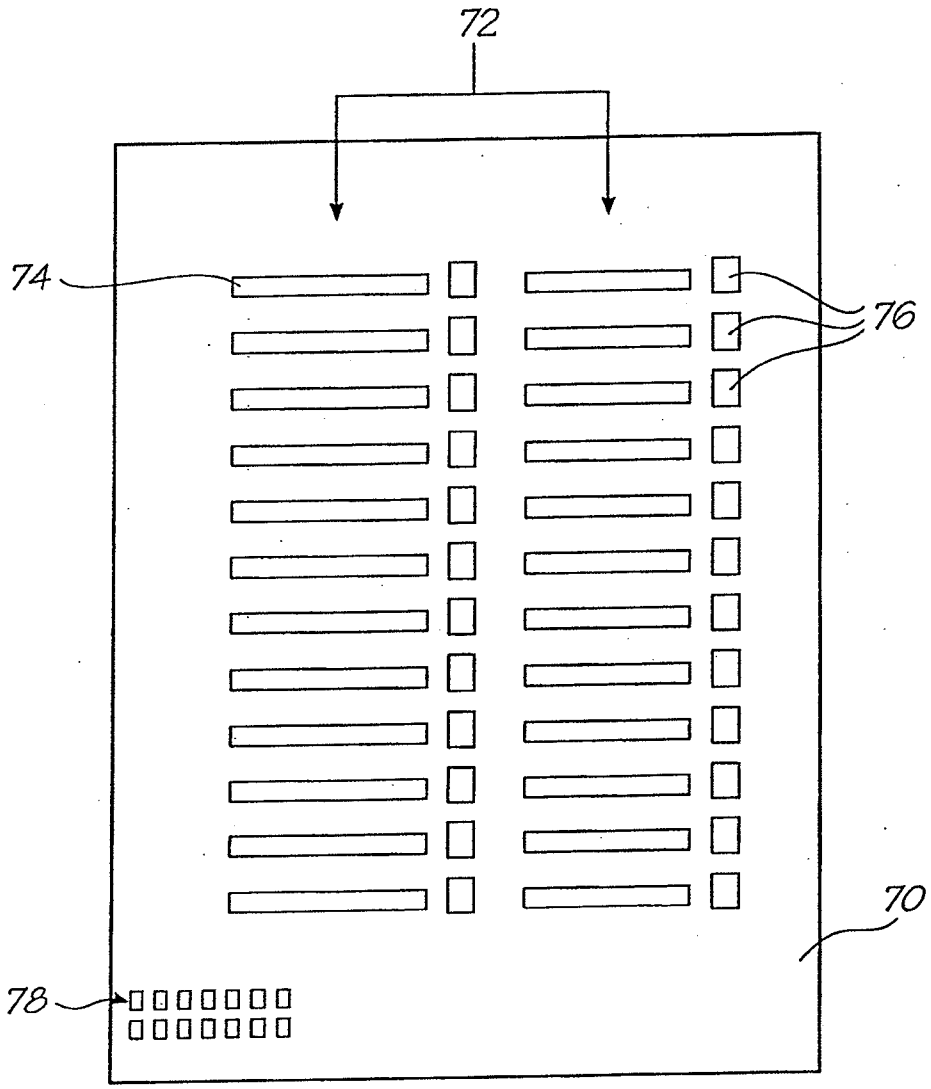

FIG. 12

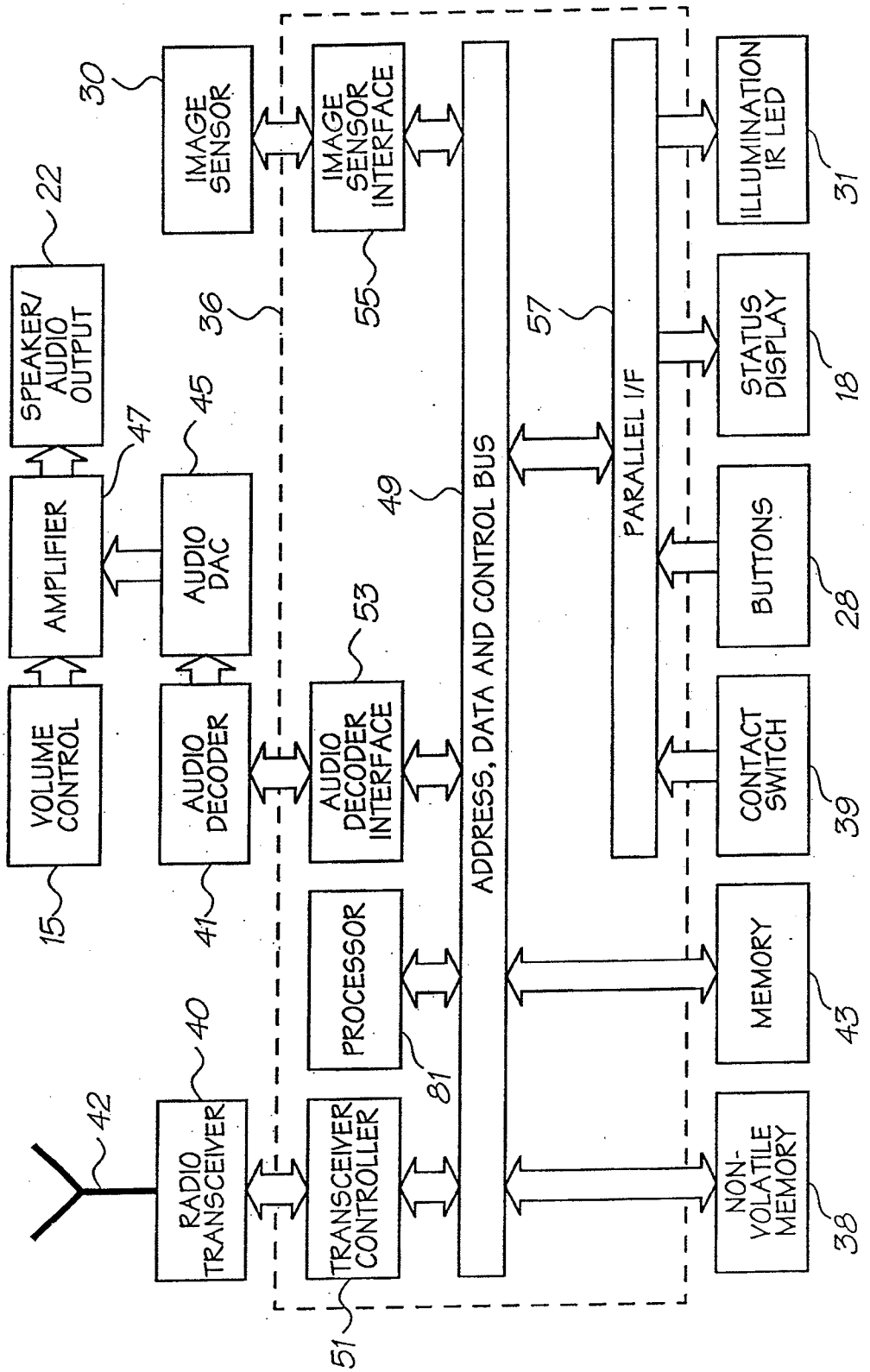
IMAGE SENSOR
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FIG. 13