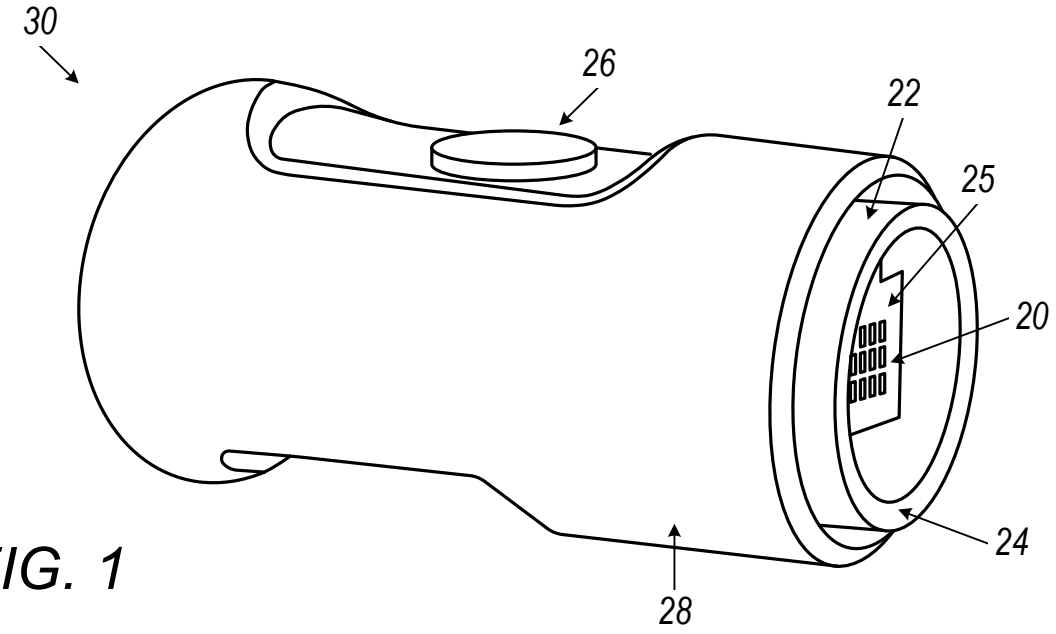

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FIG. 1

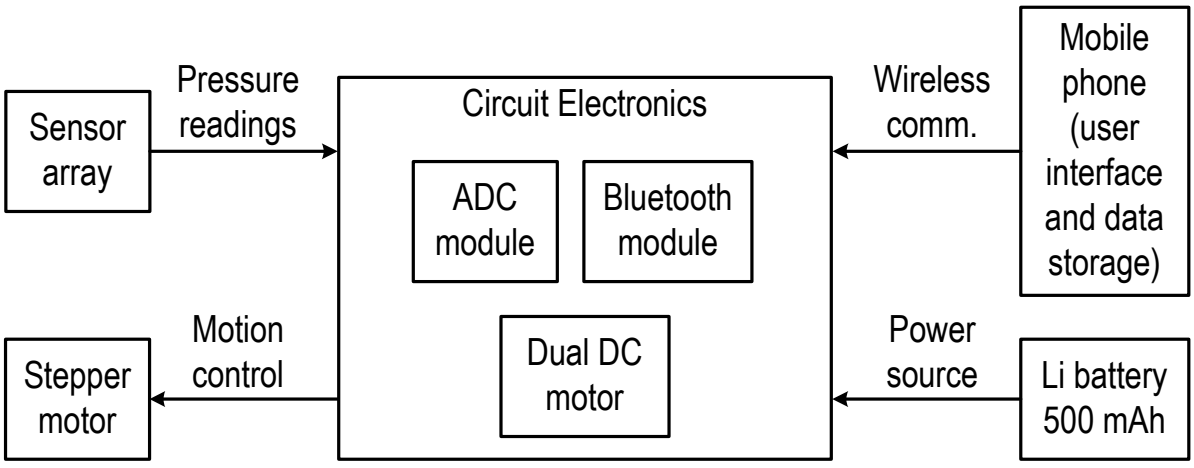

Sensor array
Pressure readings
Circuit Electronics
ADC module
Bluetooth module
Dual DC motor
Wireless comm.
Mobile phone (user interface and data storage)
Stepper motor
Motion control
Power source
Li battery 500 mAh

FIG. 2A

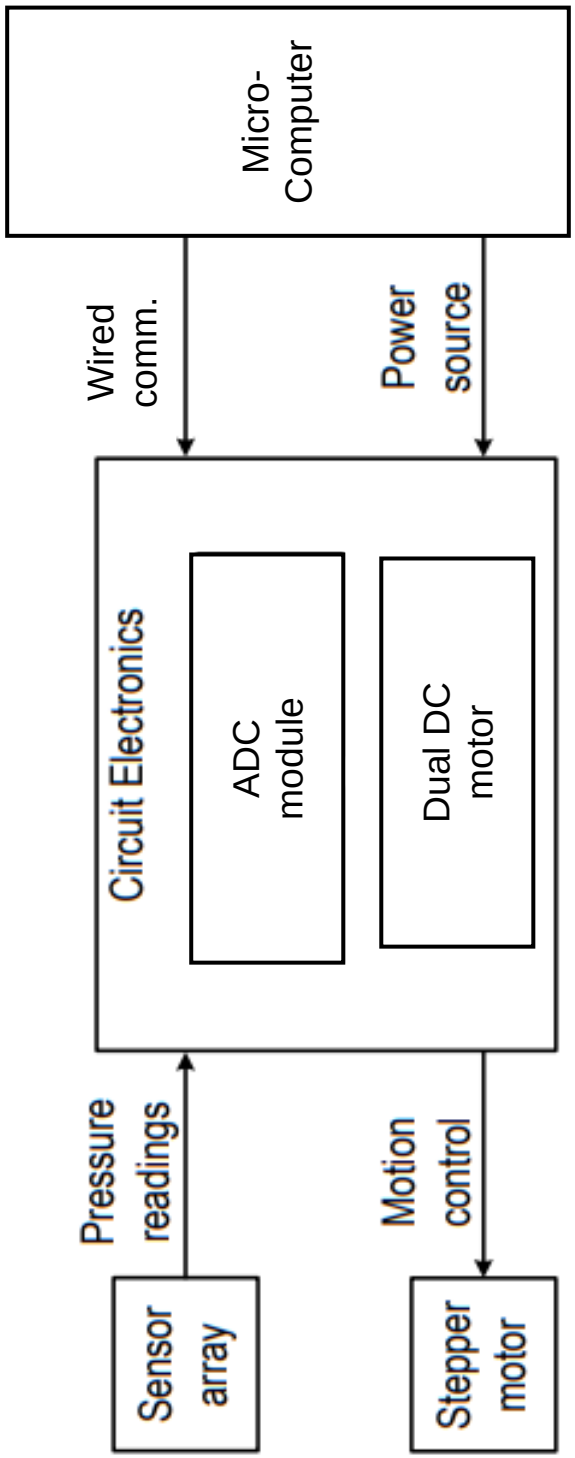
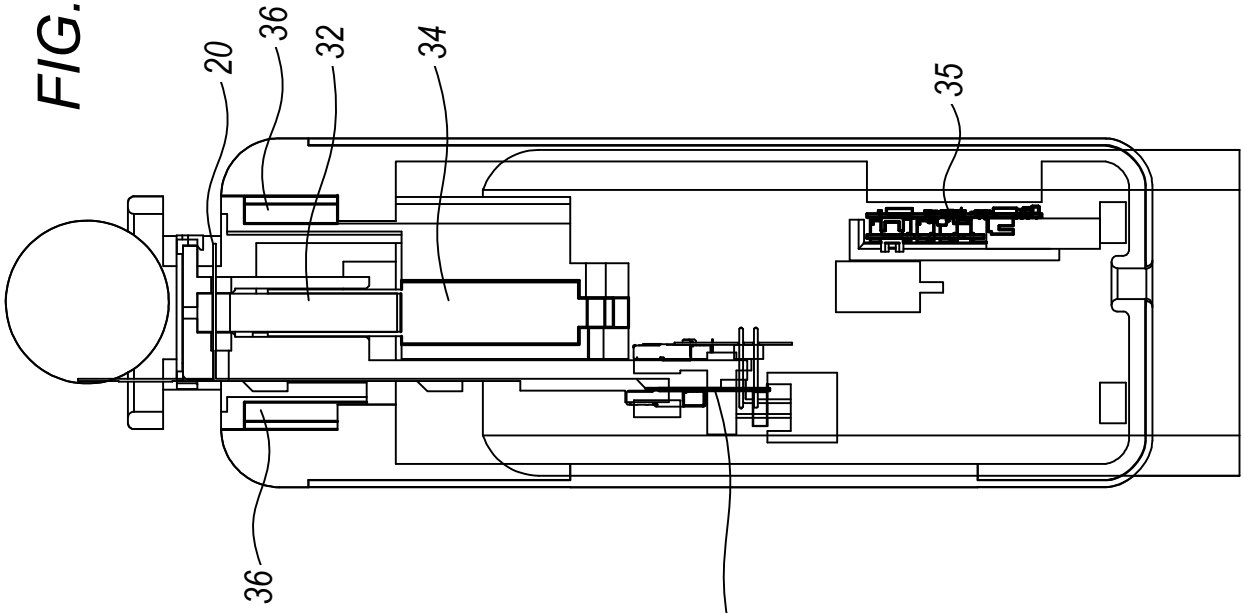

Micro-
Computer
Wired
comm.
Power
source
Circuit Electronics
ADC
module
Dual DC
motor
Pressure
readings
Motion
control
Sensor
array
Stepper
motor

FIG. 2B

FIG. 2D



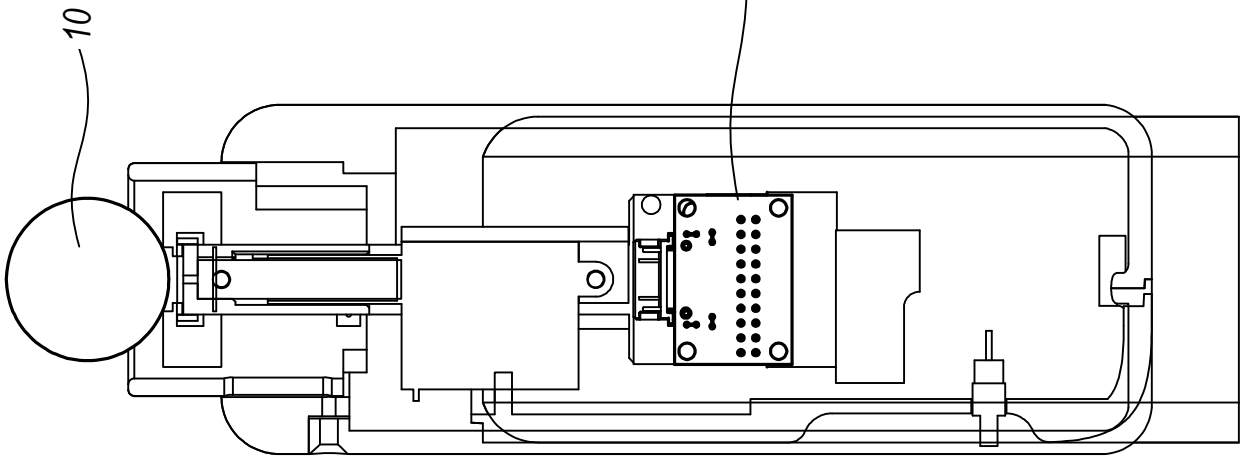


FIG. 2C

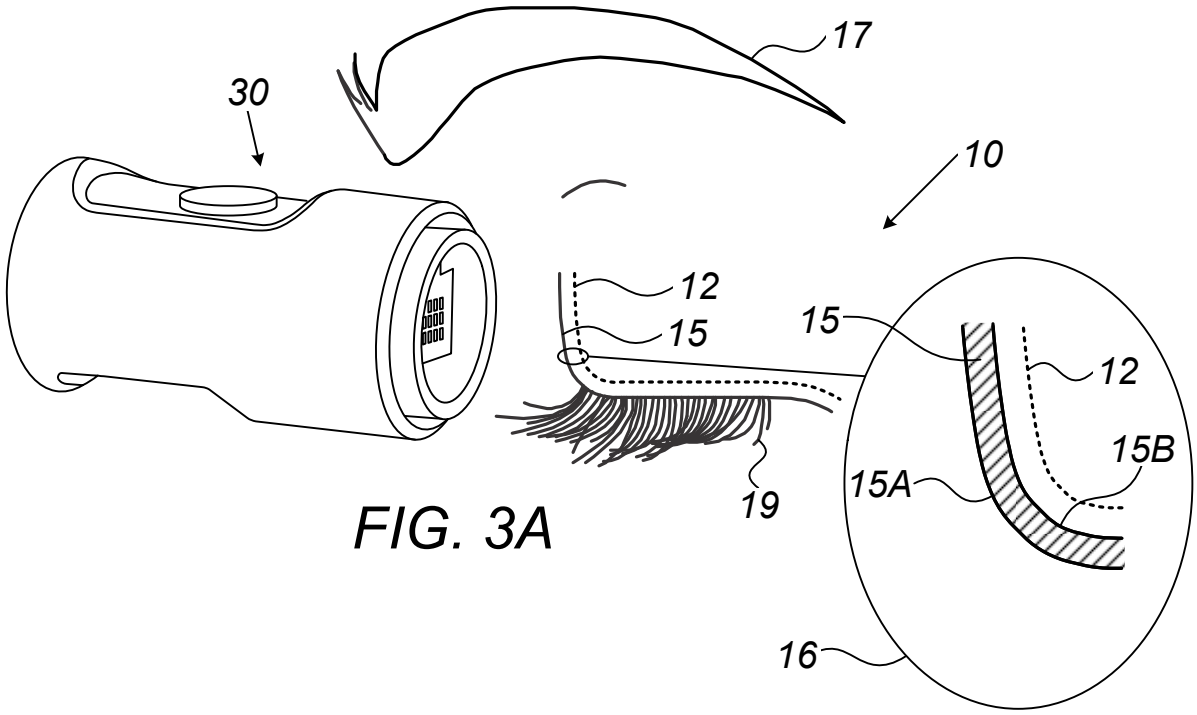


FIG. 3A

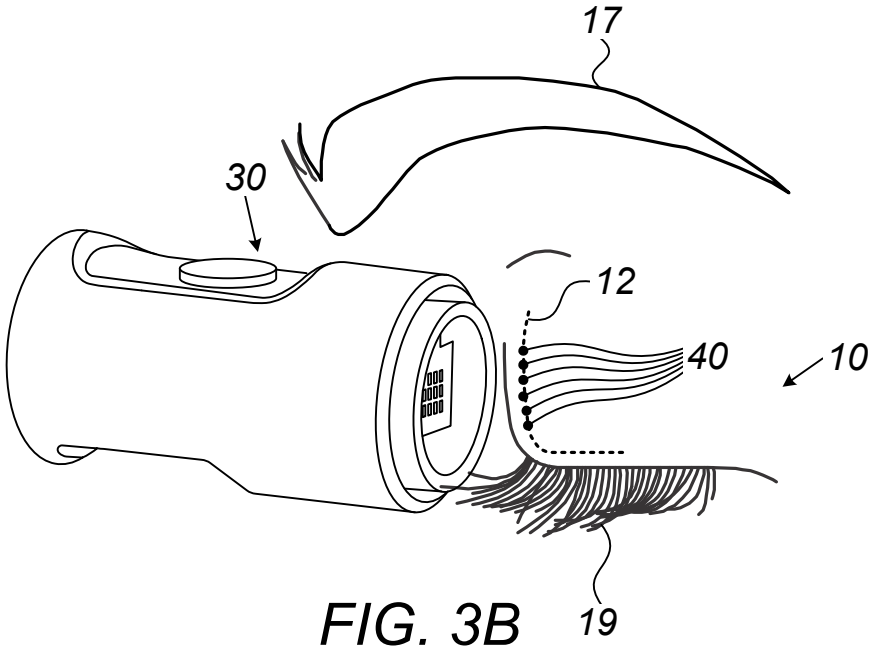


FIG. 3B

FIG. 4

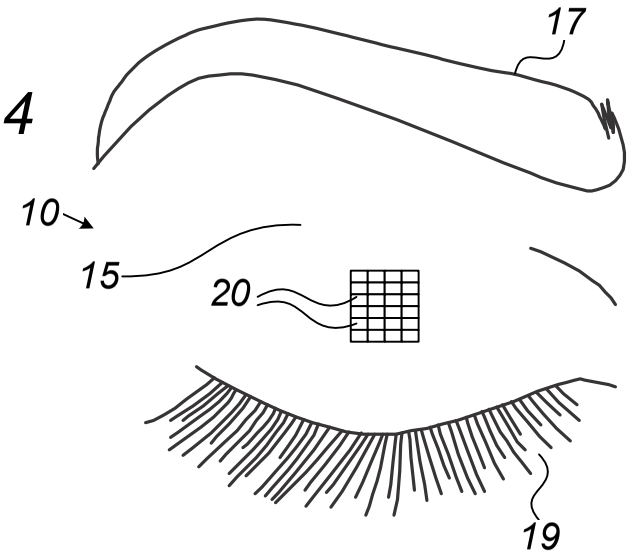
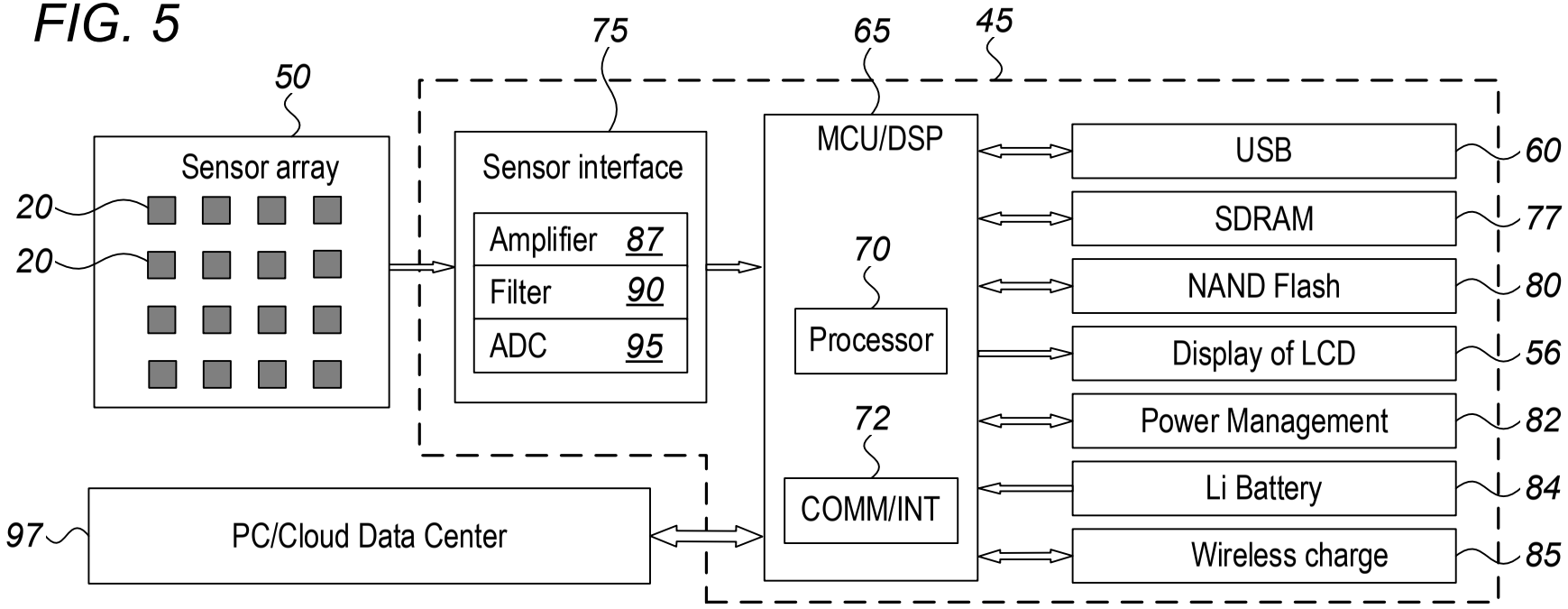

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FIG. 5


50
75
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Sensor array
20
20
Sensor interface
Amplifier 87
Filter 90
ADC 95
MCU/DSP
70
Processor
72
COMM/INT
USB
60
SDRAM
77
NAND Flash
80
Display of LCD
56
Power Management
82
Li Battery
84
Wireless charge
85
97
PC/Cloud Data Center