FIG. 1

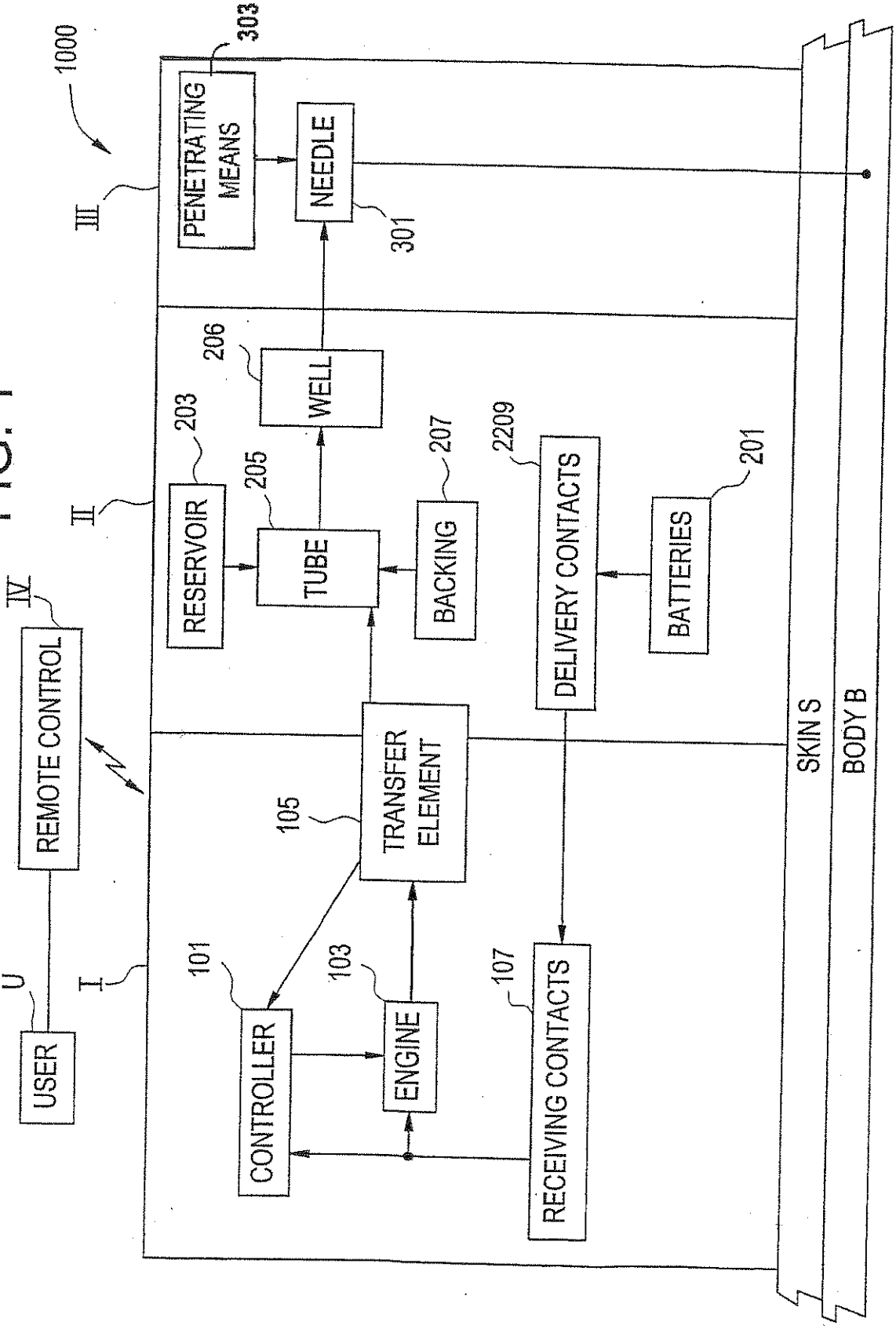

1000
303
PENETRATING MEANS
NEEDLE
301
III
206
WELL
203
RESERVOIR
205
TUBE
207
BACKING
2209
DELIVERY CONTACTS
201
BATTERIES
II
IV
REMOTE CONTROL
105
TRANSFER ELEMENT
SKIN S
BODY B
U
I
101
CONTROLLER
103
ENGINE
107
RECEIVING CONTACTS
USER

FIG. 2

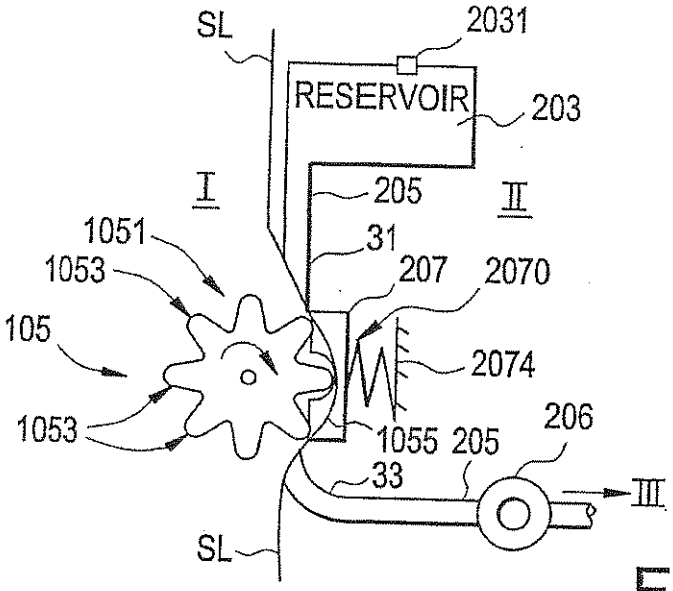


FIG. 3

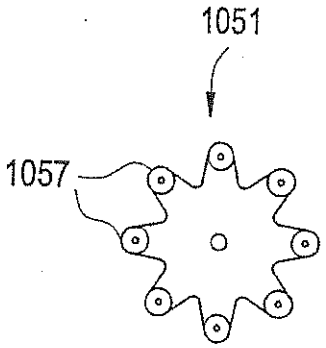


FIG. 4

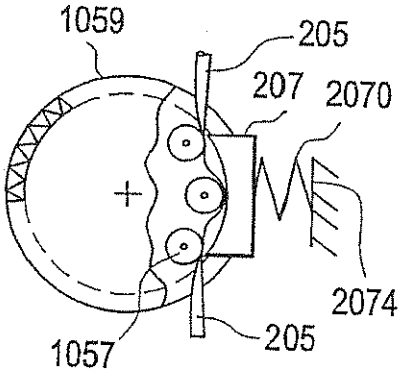


FIG. 5

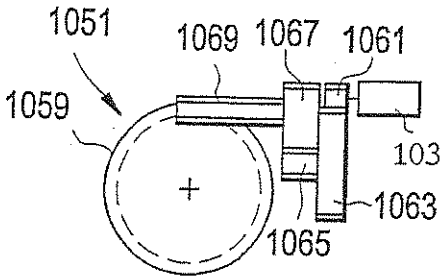


FIG. 6

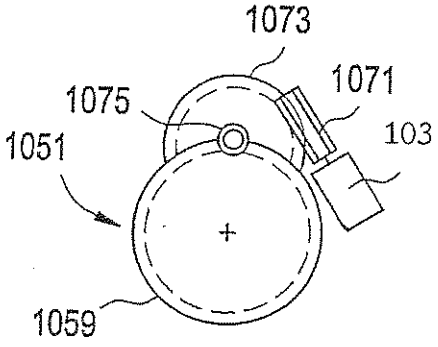


FIG. 7

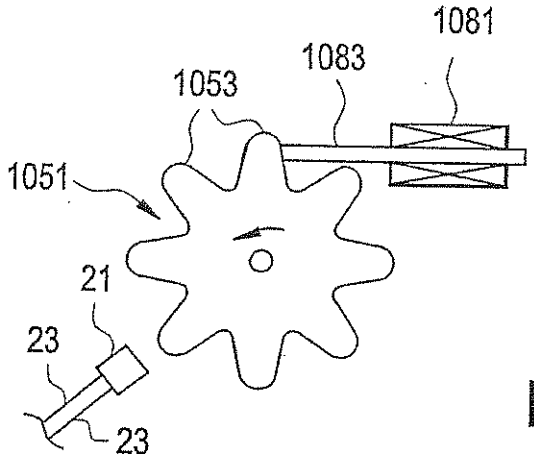


FIG. 8

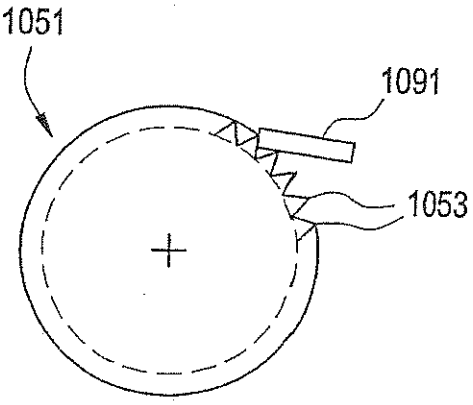


FIG. 9

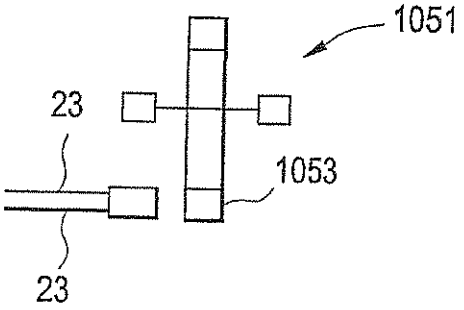


FIG. 10

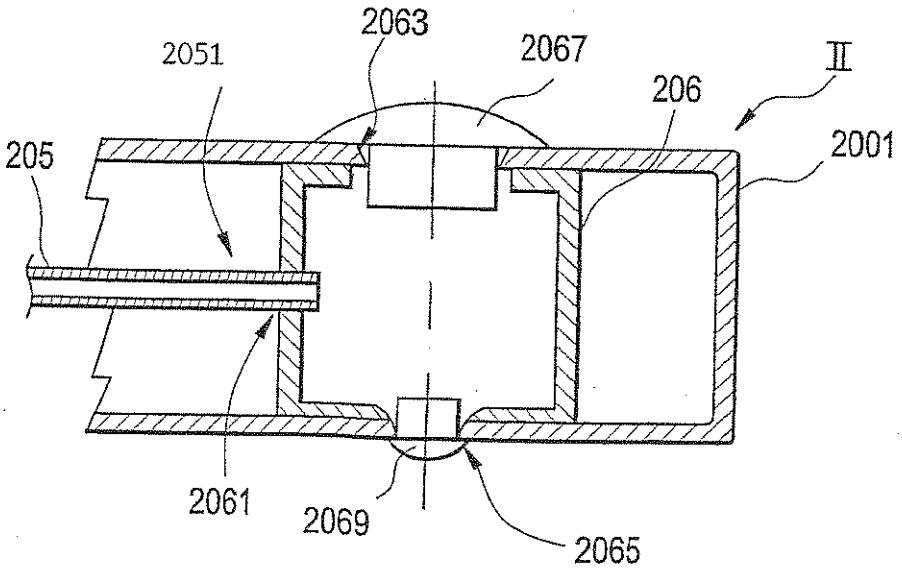


FIG. 11

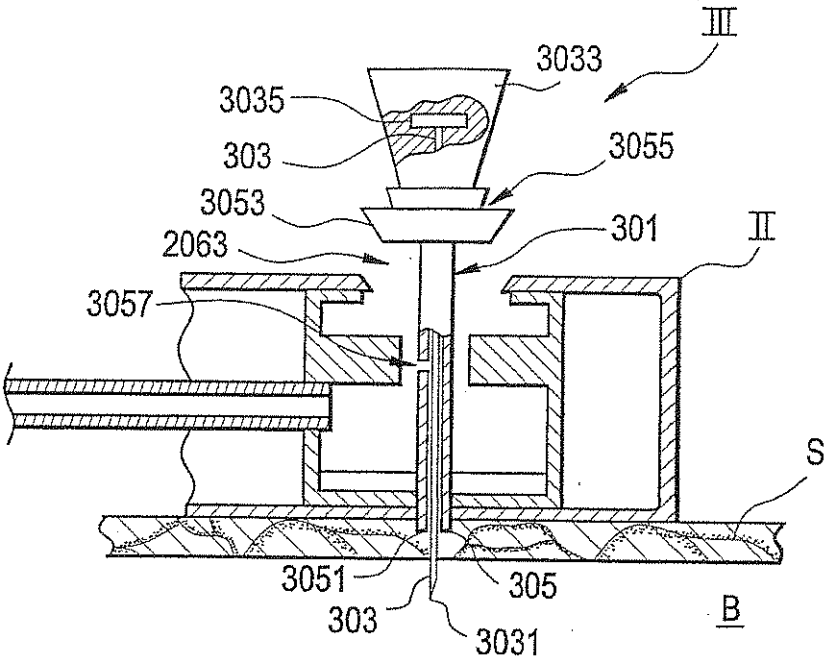

III
3033
3035
303
3055
3053
301
II
2063
3057
S
3051
305
303
3031
B

FIG. 12

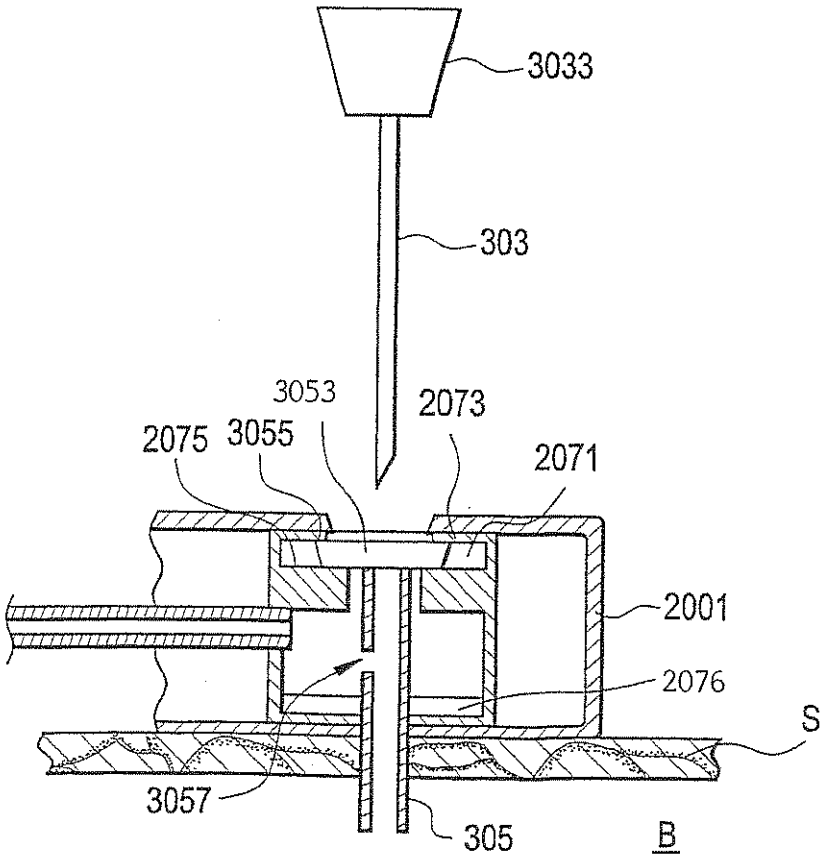

3033
303
3053
2073
2075
3055
2071
2001
2076
S
3057
305
B

FIG. 13

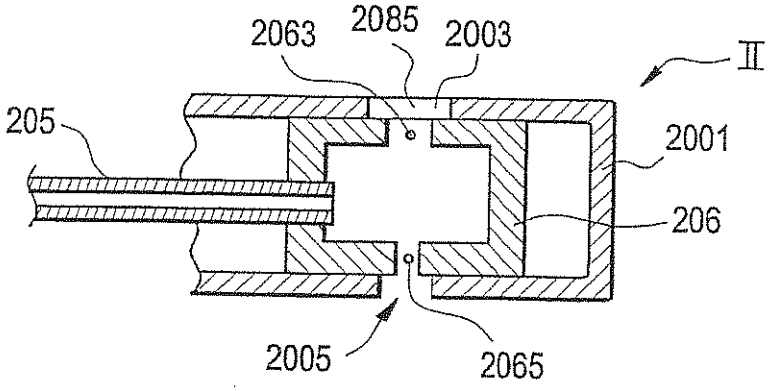


FIG. 14

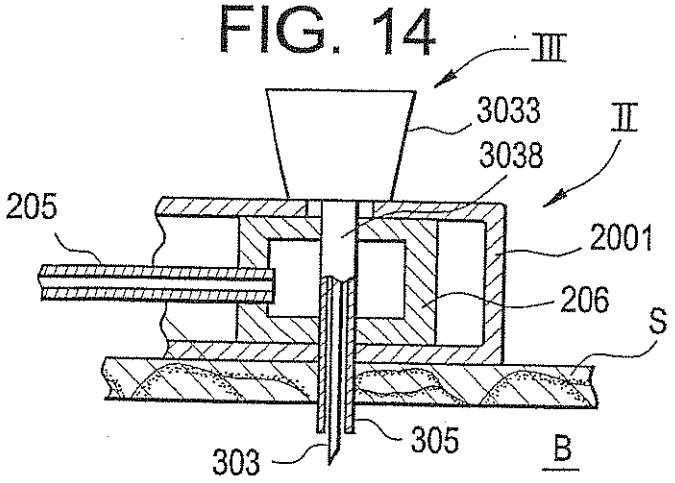


FIG. 15

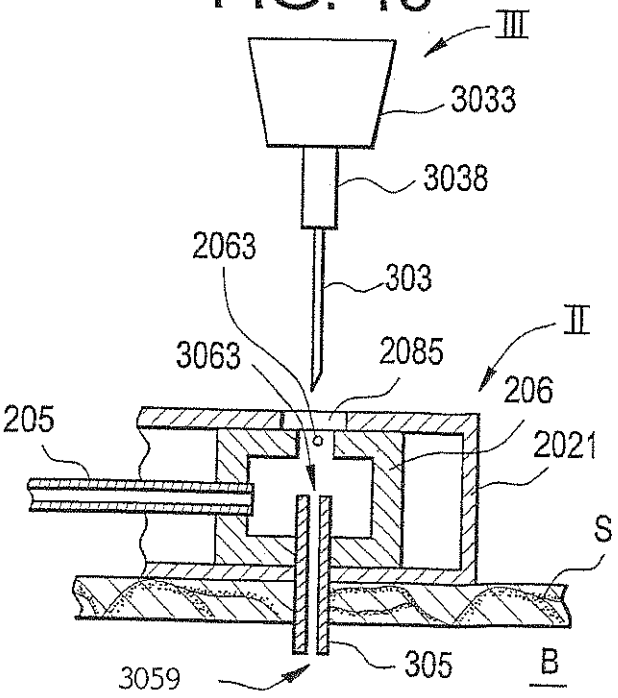


FIG. 16

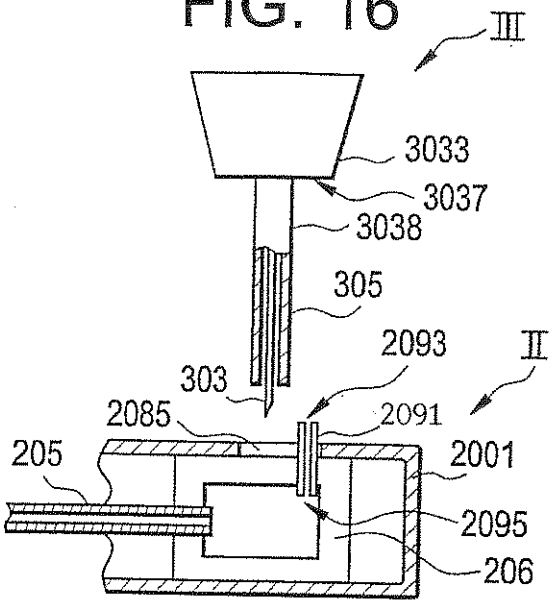


FIG. 17

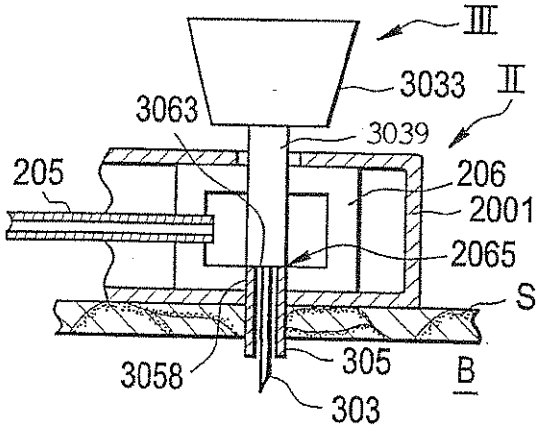


FIG. 18

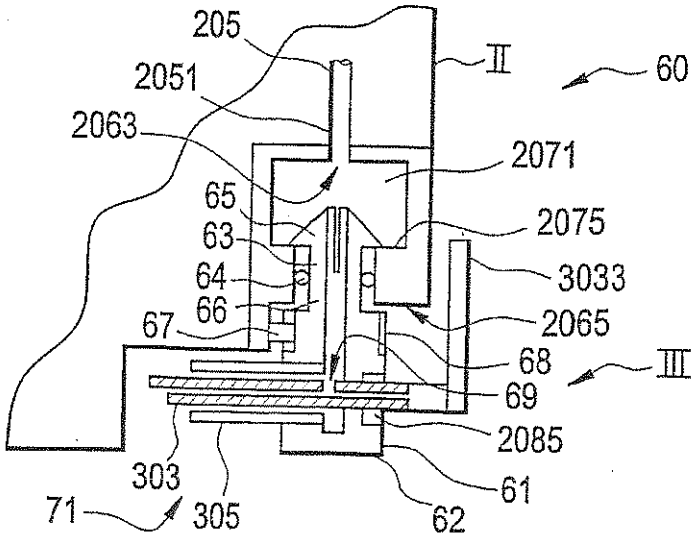


FIG. 20

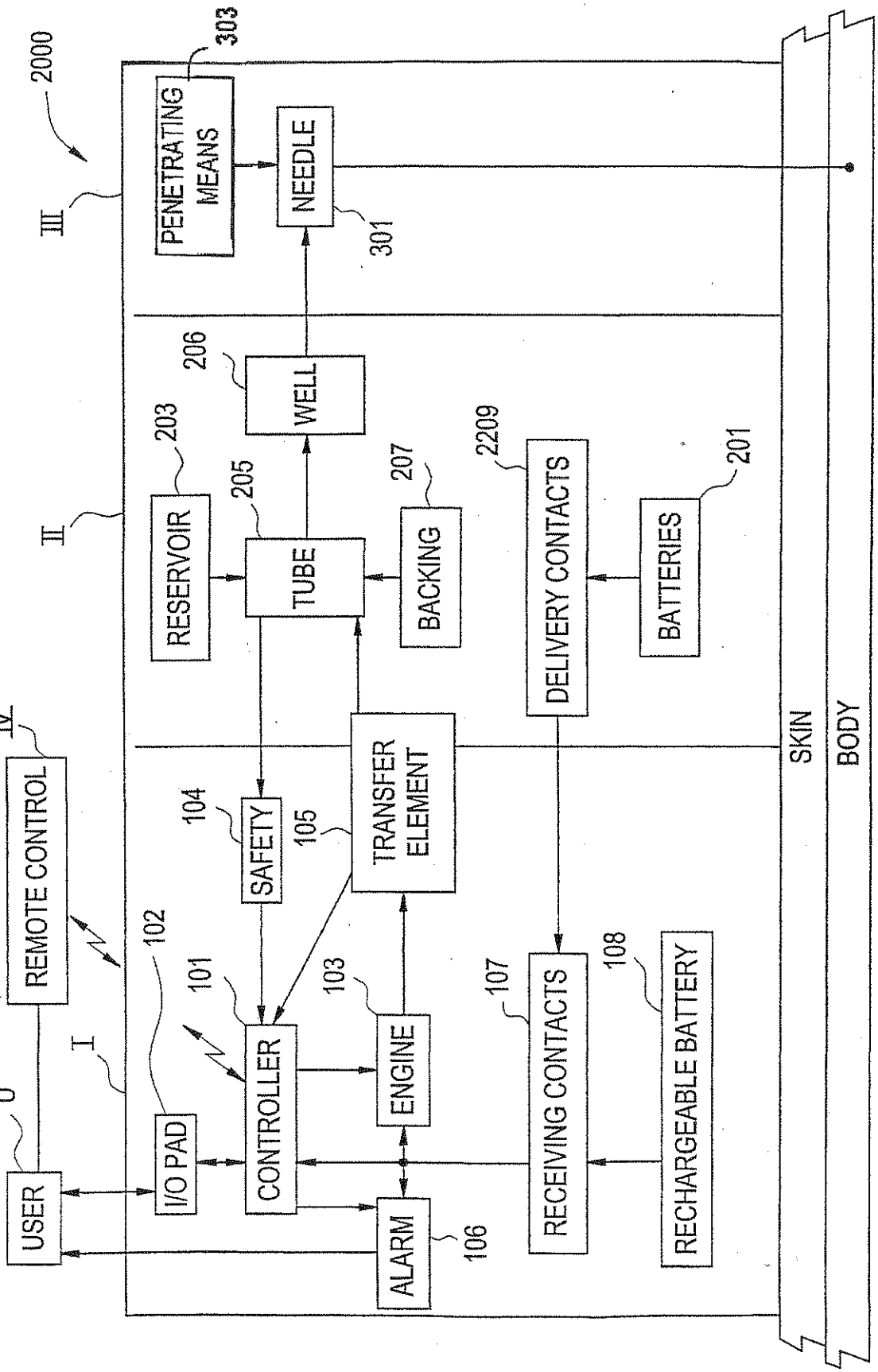

2000
III
303
PENETRATING MEANS
NEEDLE
301
206
WELL
203
RESERVOIR
205
TUBE
207
BACKING
2209
DELIVERY CONTACTS
201
BATTERIES
II
IV
REMOTE CONTROL
104
SAFETY
105
TRANSFER ELEMENT
SKIN
BODY
102
101
103
107
108
U
I
I/O PAD
CONTROLLER
ENGINE
RECEIVING CONTACTS
RECHARGEABLE BATTERY
USER
ALARM
106

FIG. 19

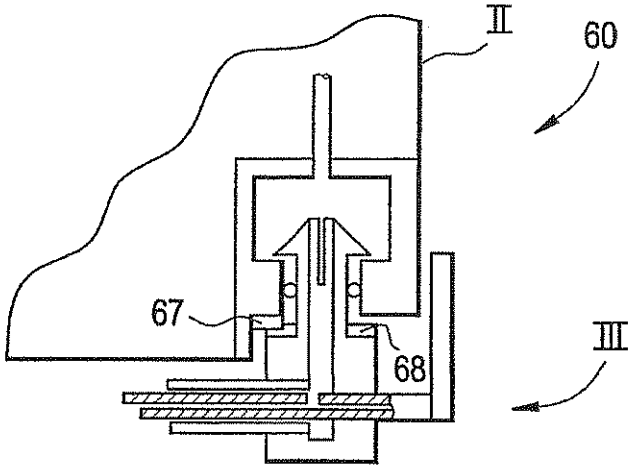


FIG. 21

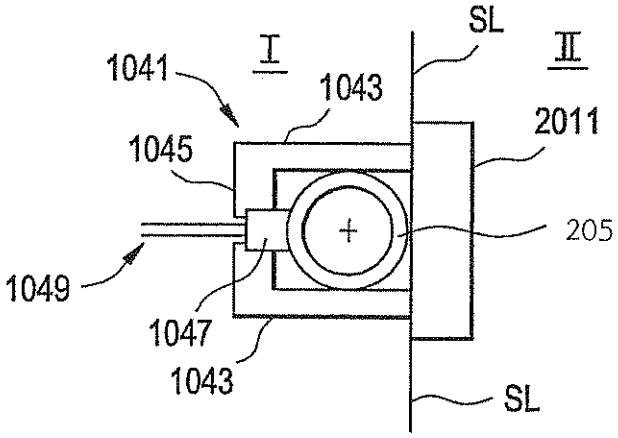


FIG. 22

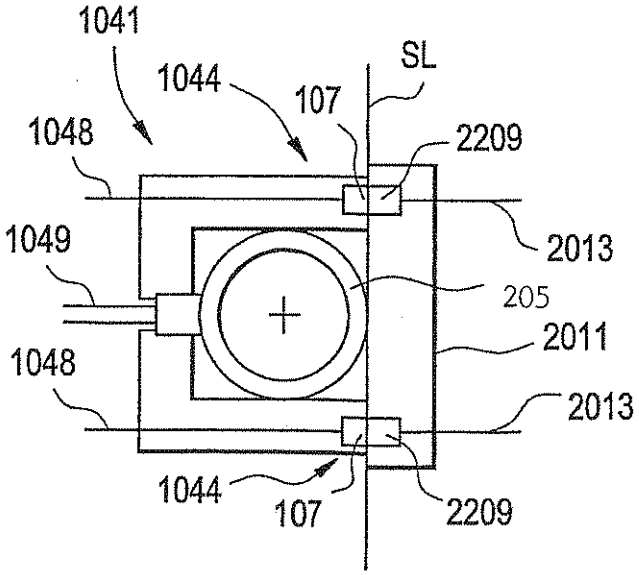


FIG. 23

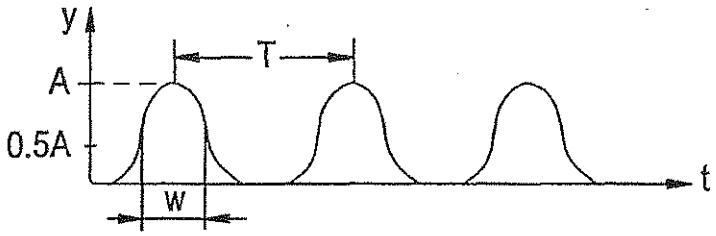

y
A
0.5A
T
t
w

FIG. 24

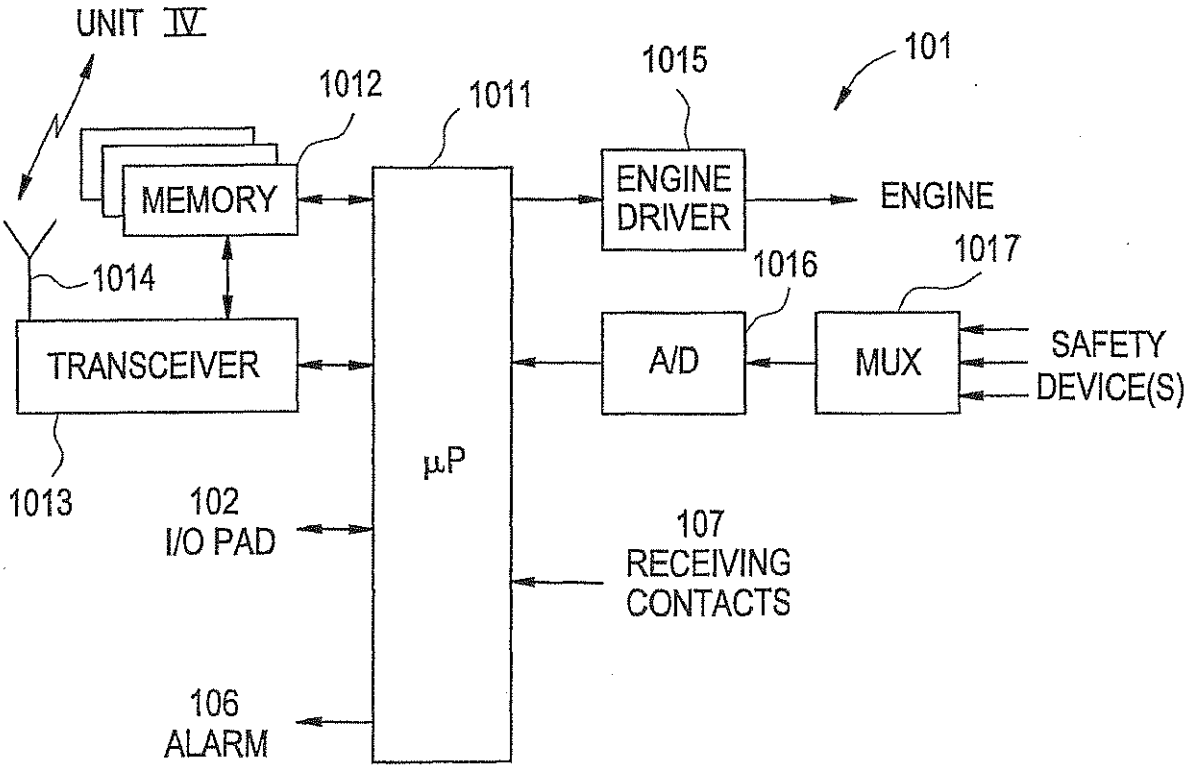

UNIT IV
1012
1011
1015
101
MEMORY
ENGINE DRIVER
ENGINE
1014
1016
1017
TRANSCEIVER
A/D
MUX
SAFETY DEVICE(S)
1013
102
I/O PAD
μP
107
RECEIVING CONTACTS
106
ALARM

FIG. 25

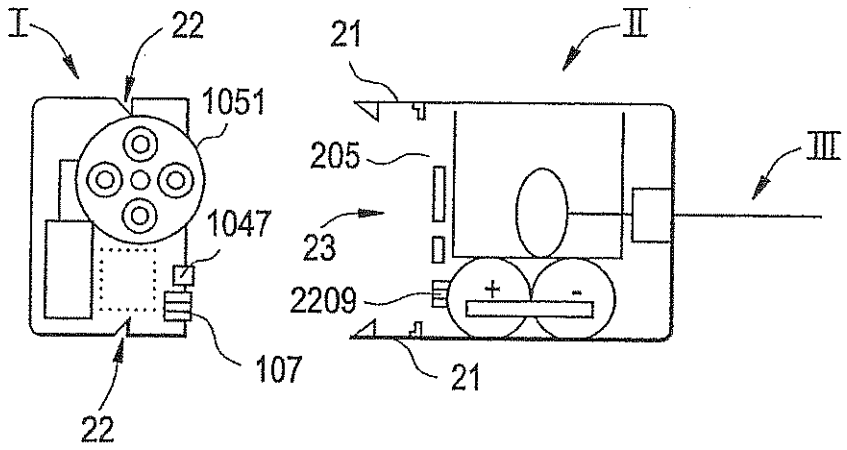


FIG. 26

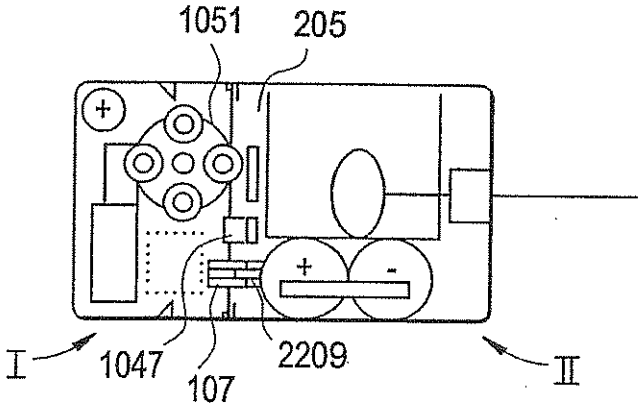


FIG. 27

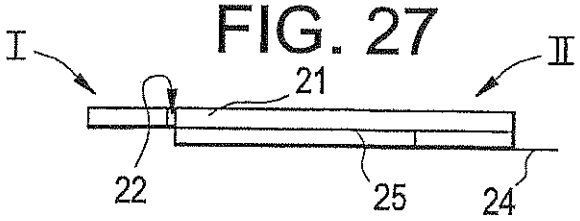


FIG. 28

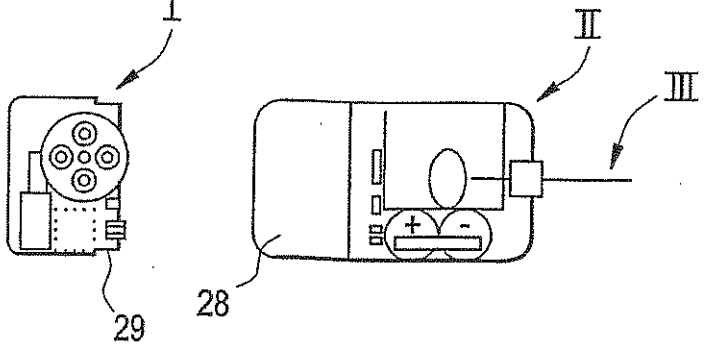


FIG. 29

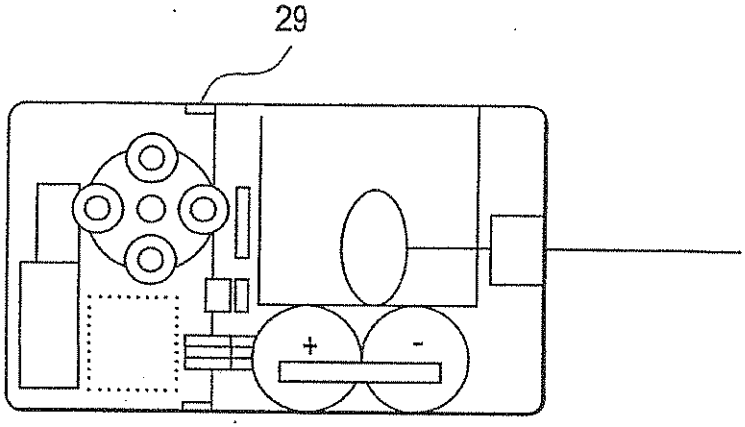
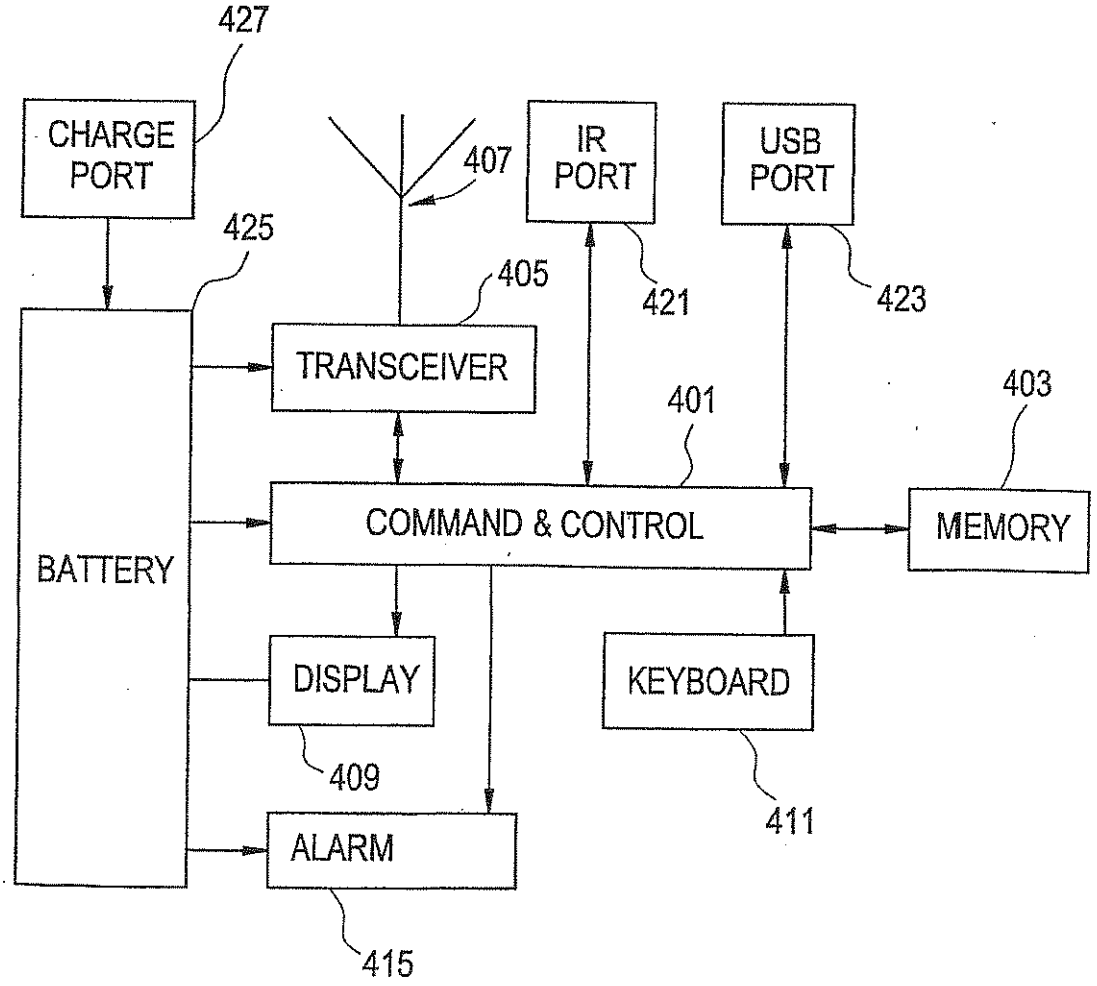

29
+
-

FIG. 30


427
CHARGE PORT
425
BATTERY
407
405
TRANSCEIVER
IR PORT
421
USB PORT
423
401
COMMAND & CONTROL
403
MEMORY
DISPLAY
409
KEYBOARD
411
ALARM
415