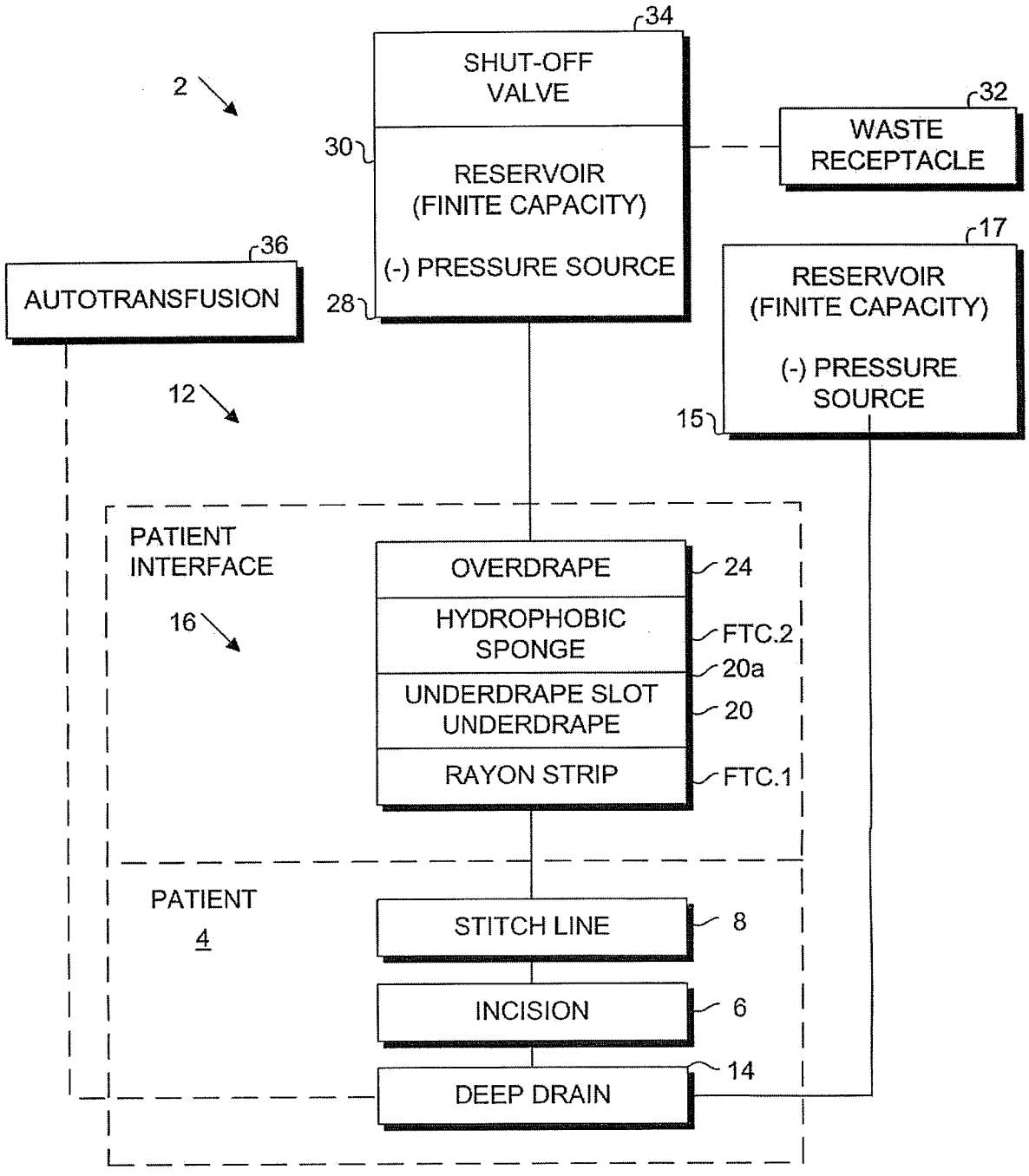

2
34
SHUT-OFF VALVE
30
RESERVOIR (FINITE CAPACITY)
(-) PRESSURE SOURCE
28
32
WASTE RECEPTACLE
36
AUTOTRANSFUSION
17
RESERVOIR (FINITE CAPACITY)
(-) PRESSURE SOURCE
15
12
PATIENT INTERFACE
16
OVERDRAPE
24
HYDROPHOBIC SPONGE
FTC.2
20a
UNDERDRAPE SLOT UNDERDRAPE
20
RAYON STRIP
FTC.1
PATIENT
4
STITCH LINE
8
INCISION
6
14
DEEP DRAIN

FIG. 1

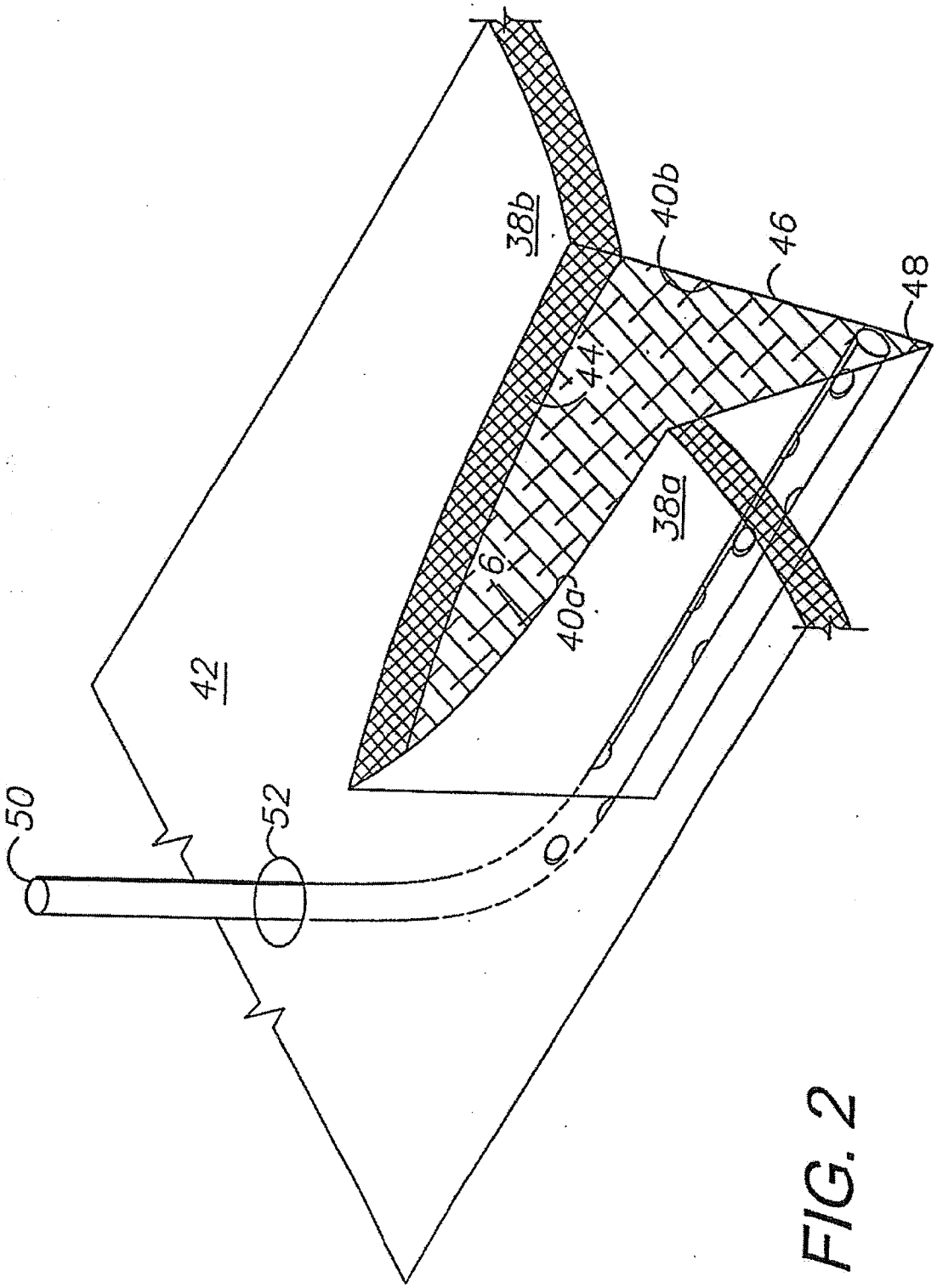


FIG. 2

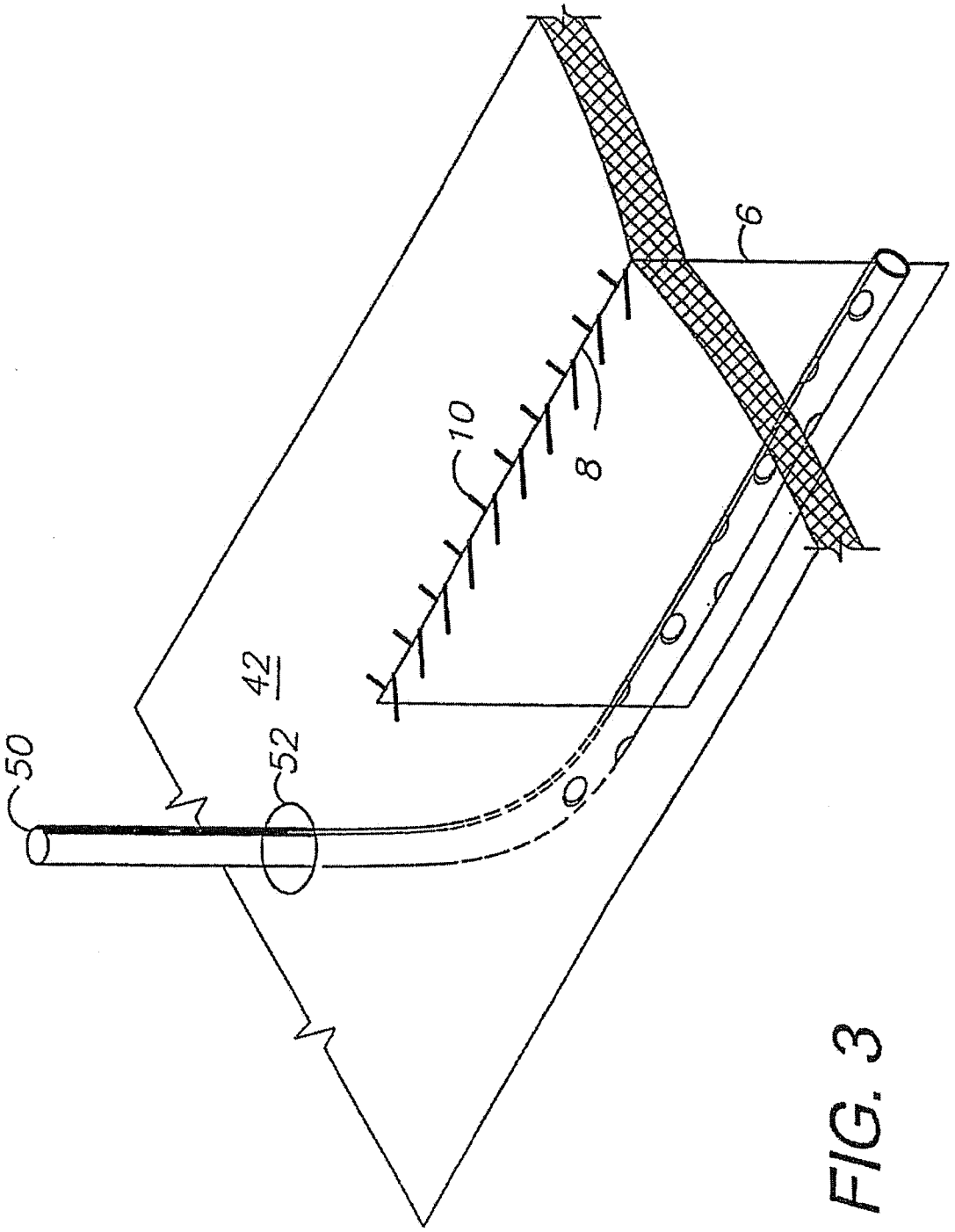


FIG. 3

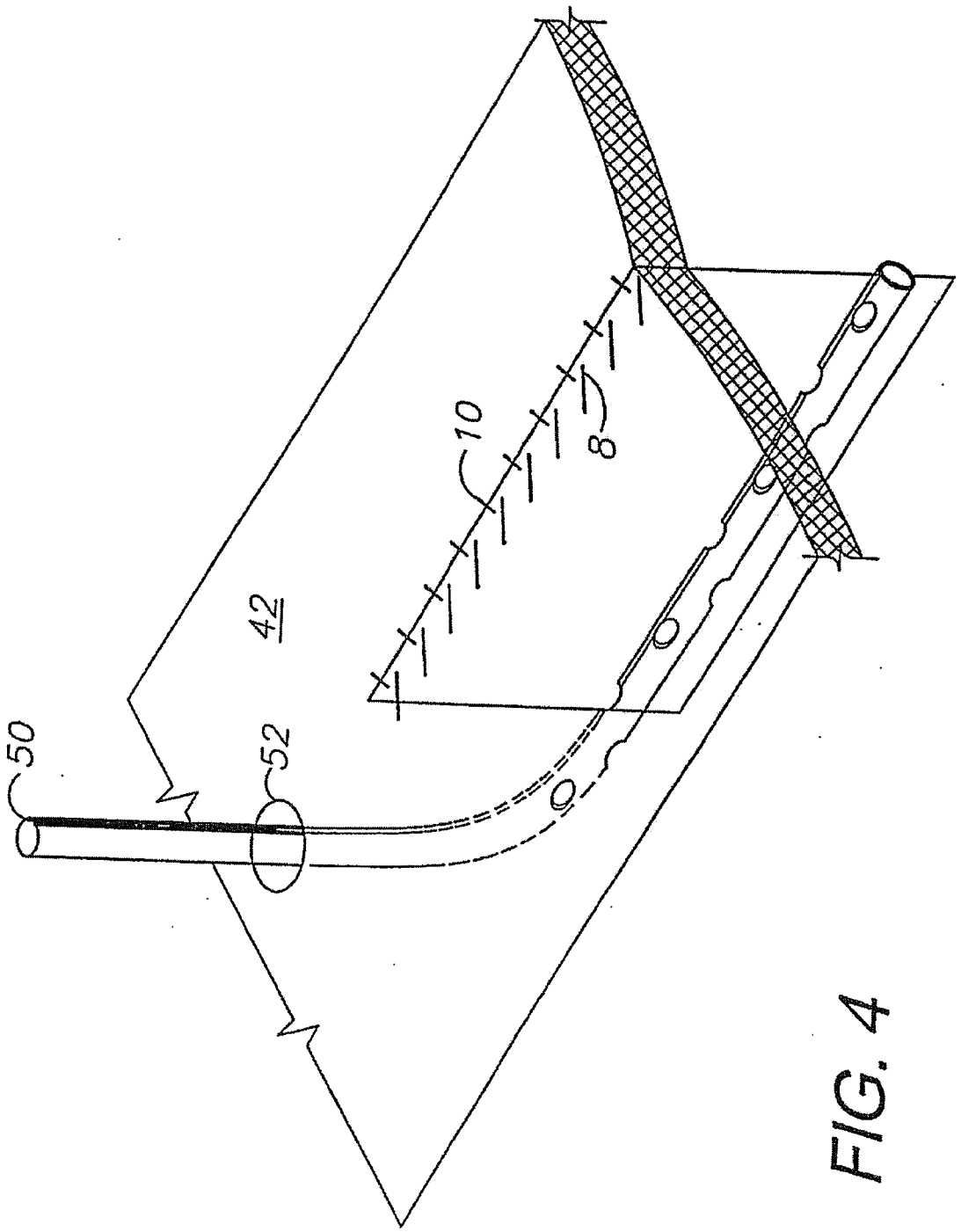


FIG. 4

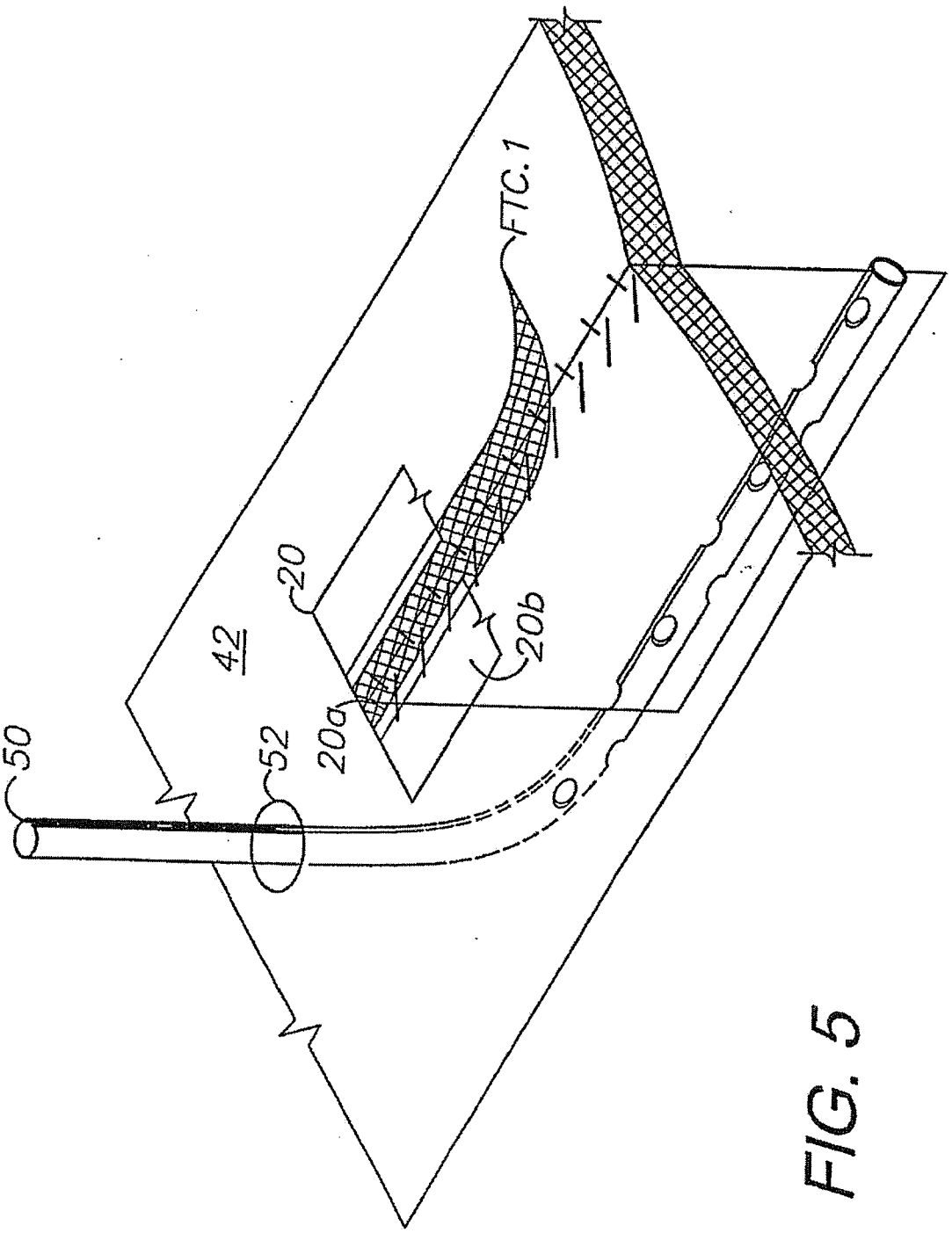


FIG. 5

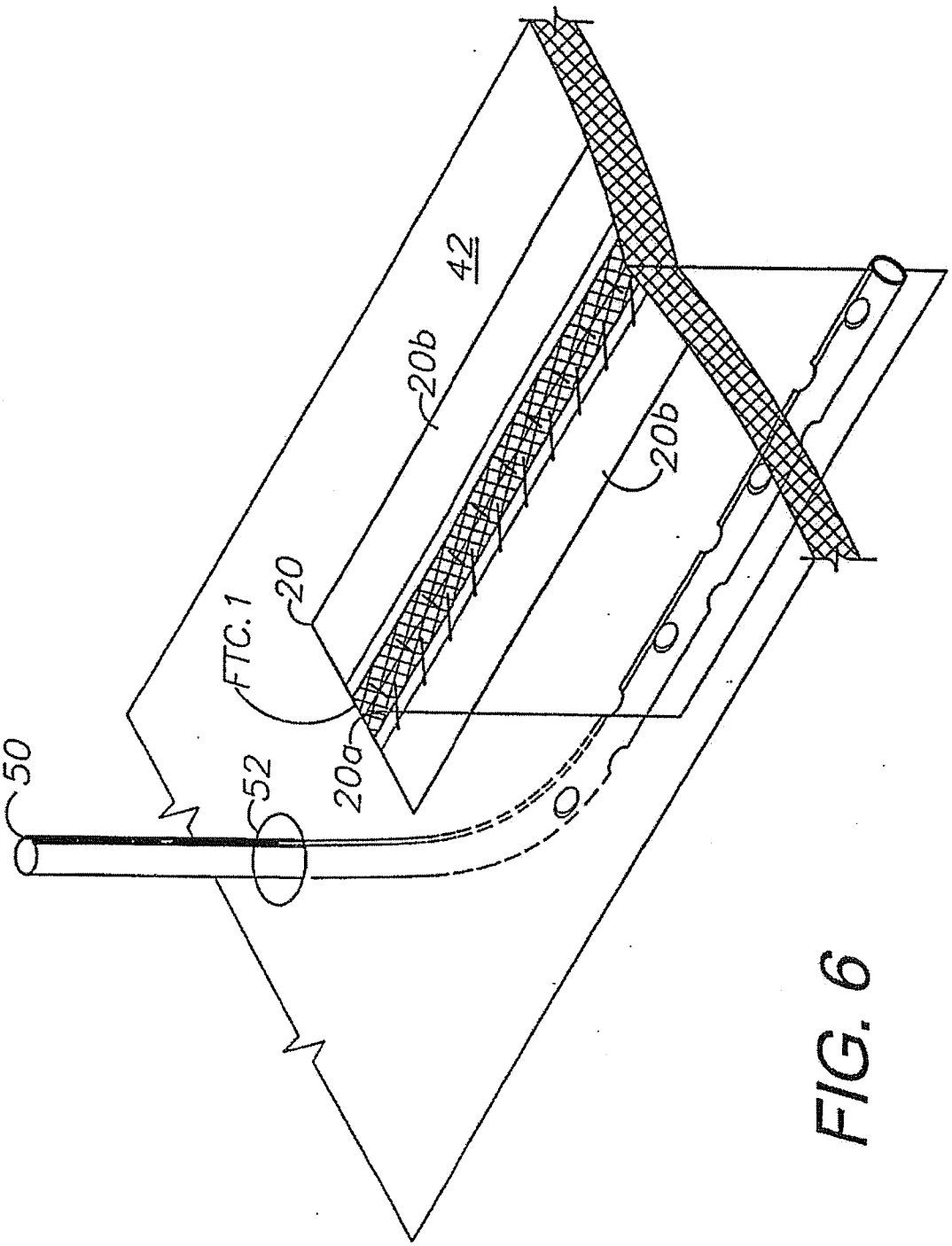


FIG. 6

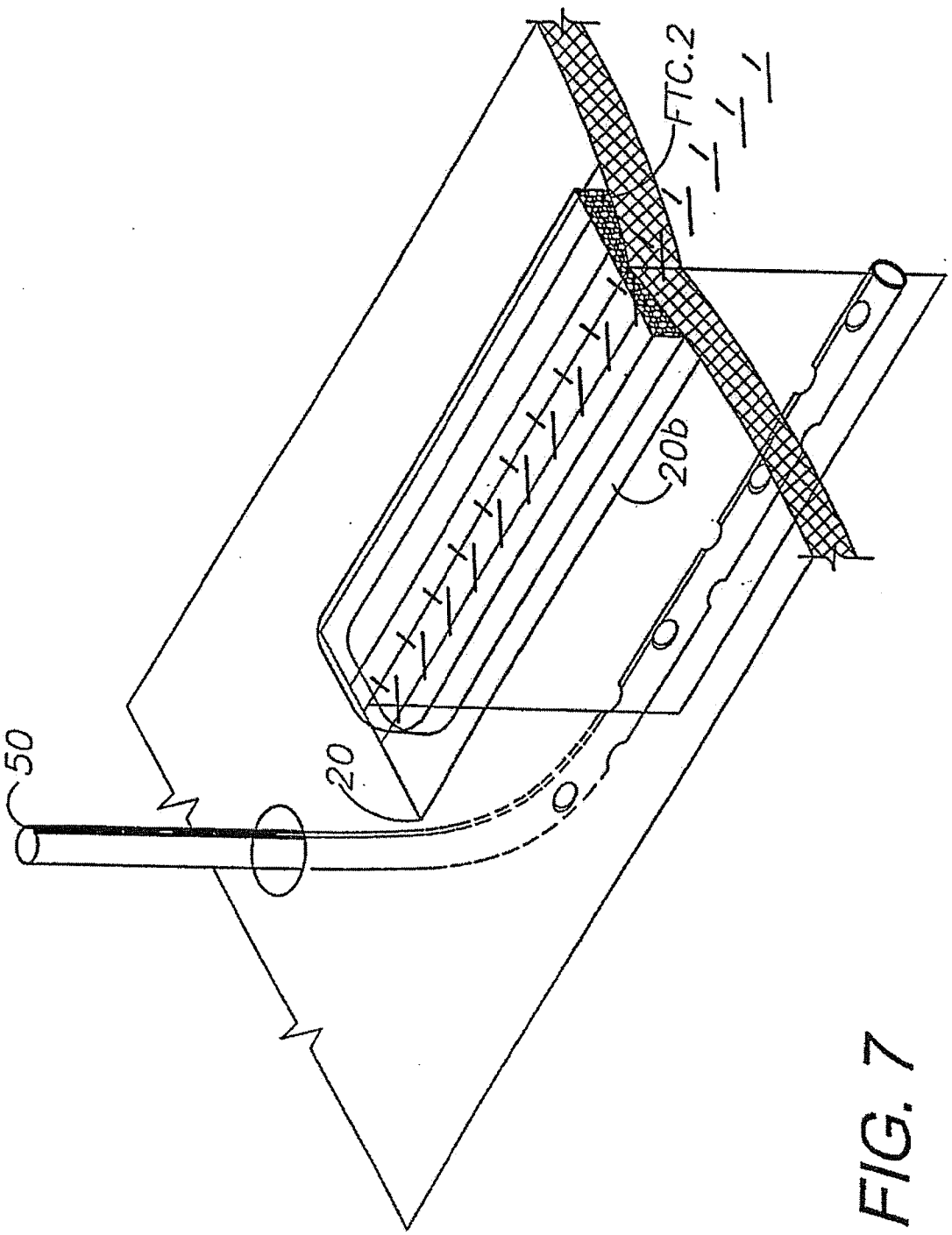


FIG. 7

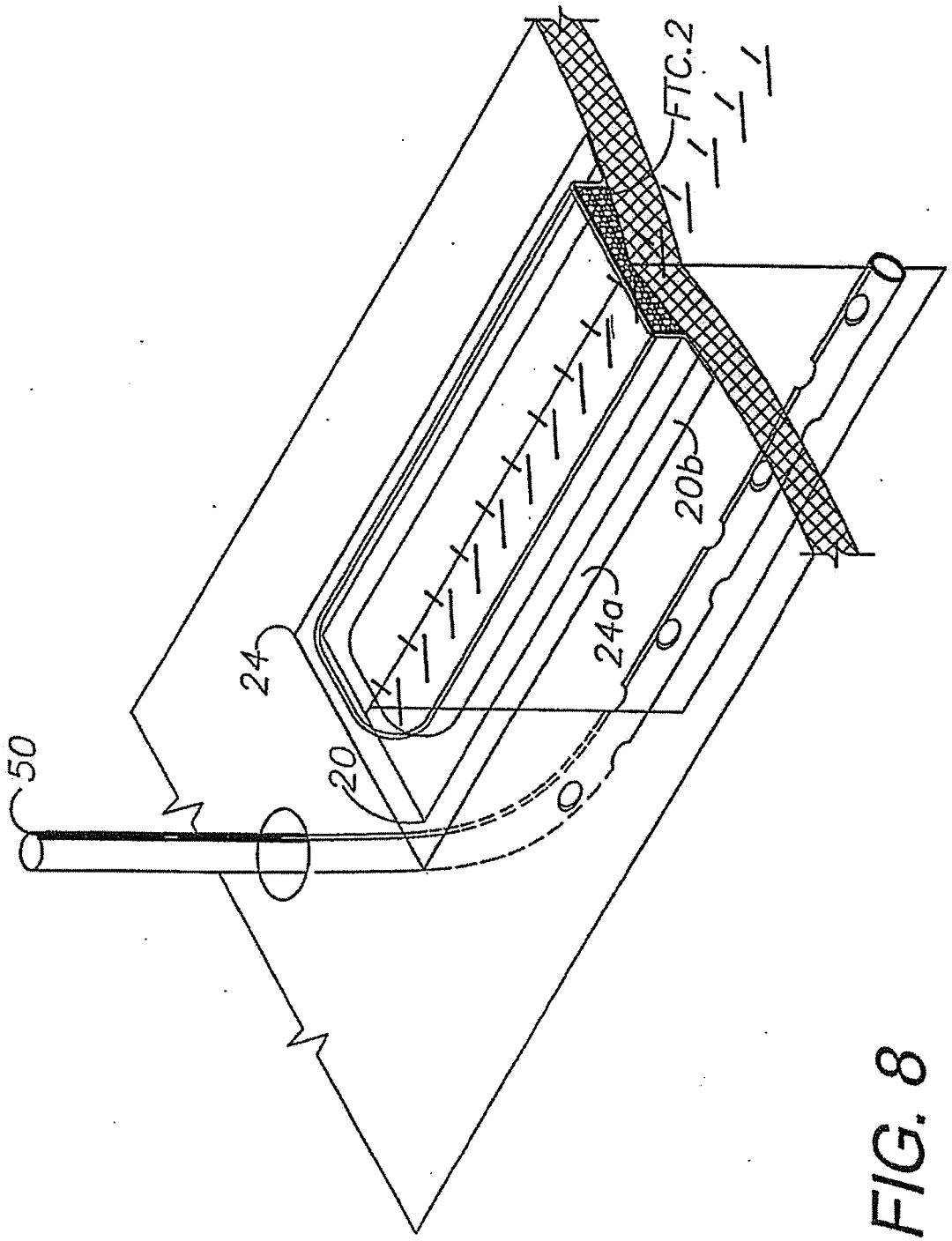


FIG. 8

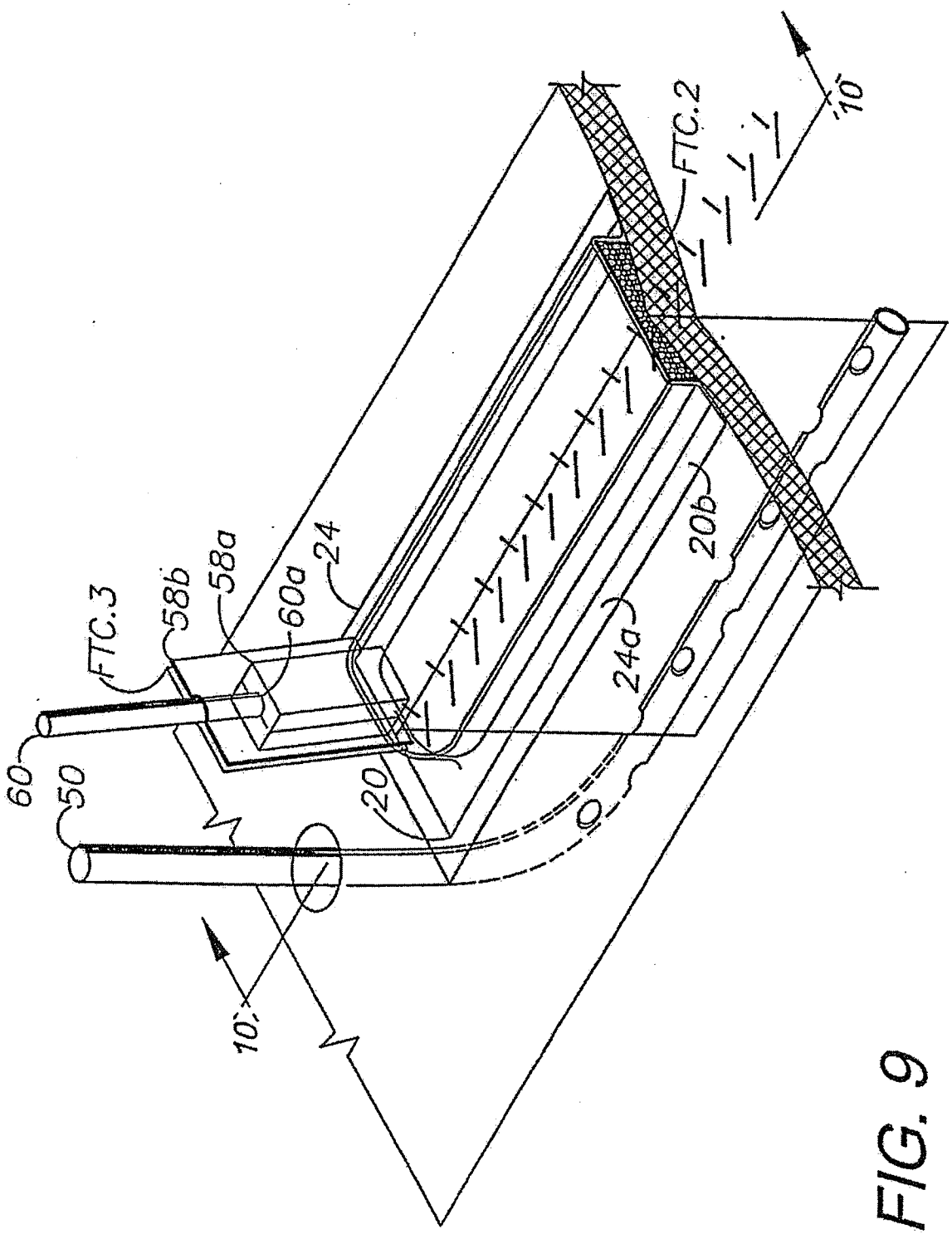
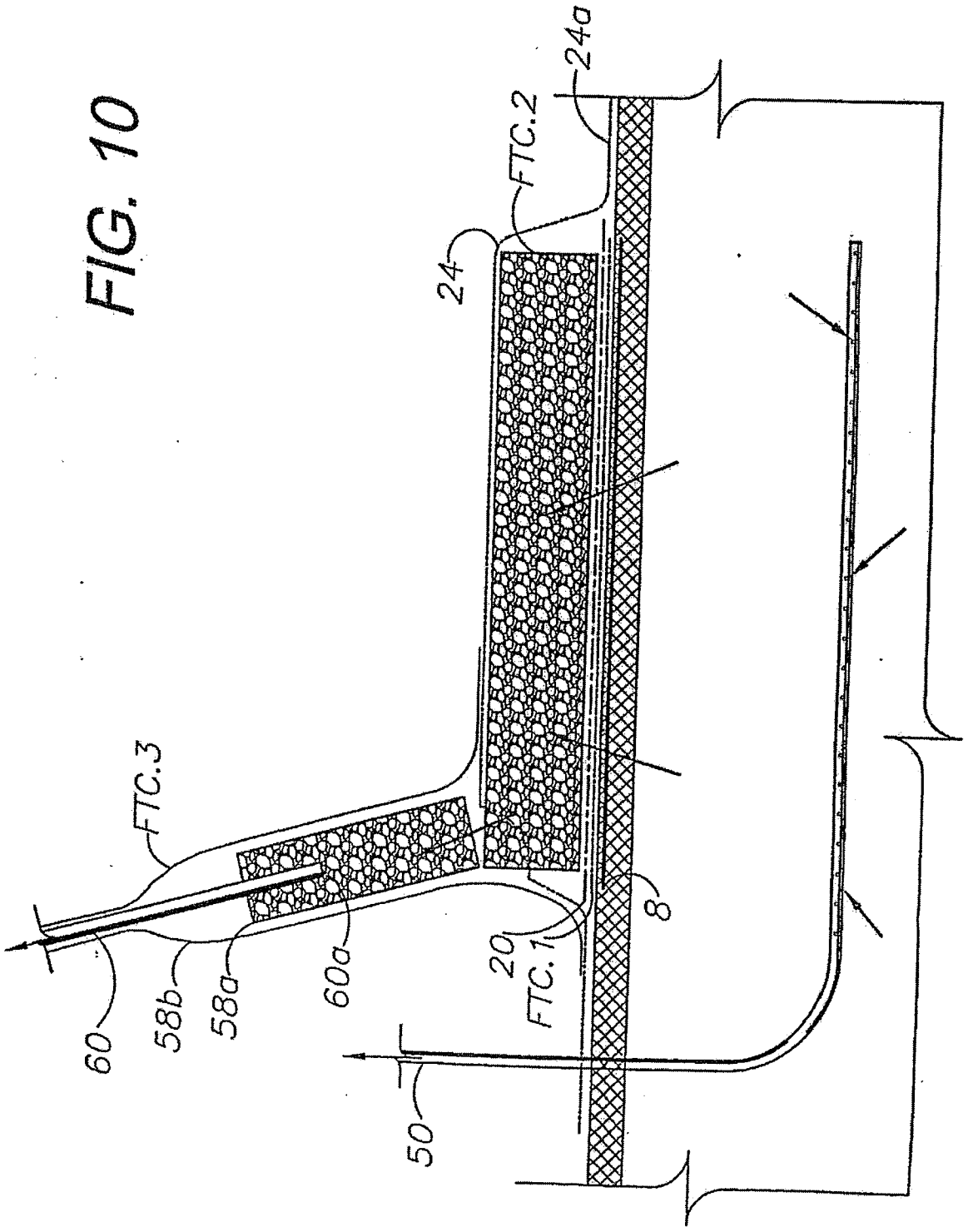


FIG. 9

FIG. 10



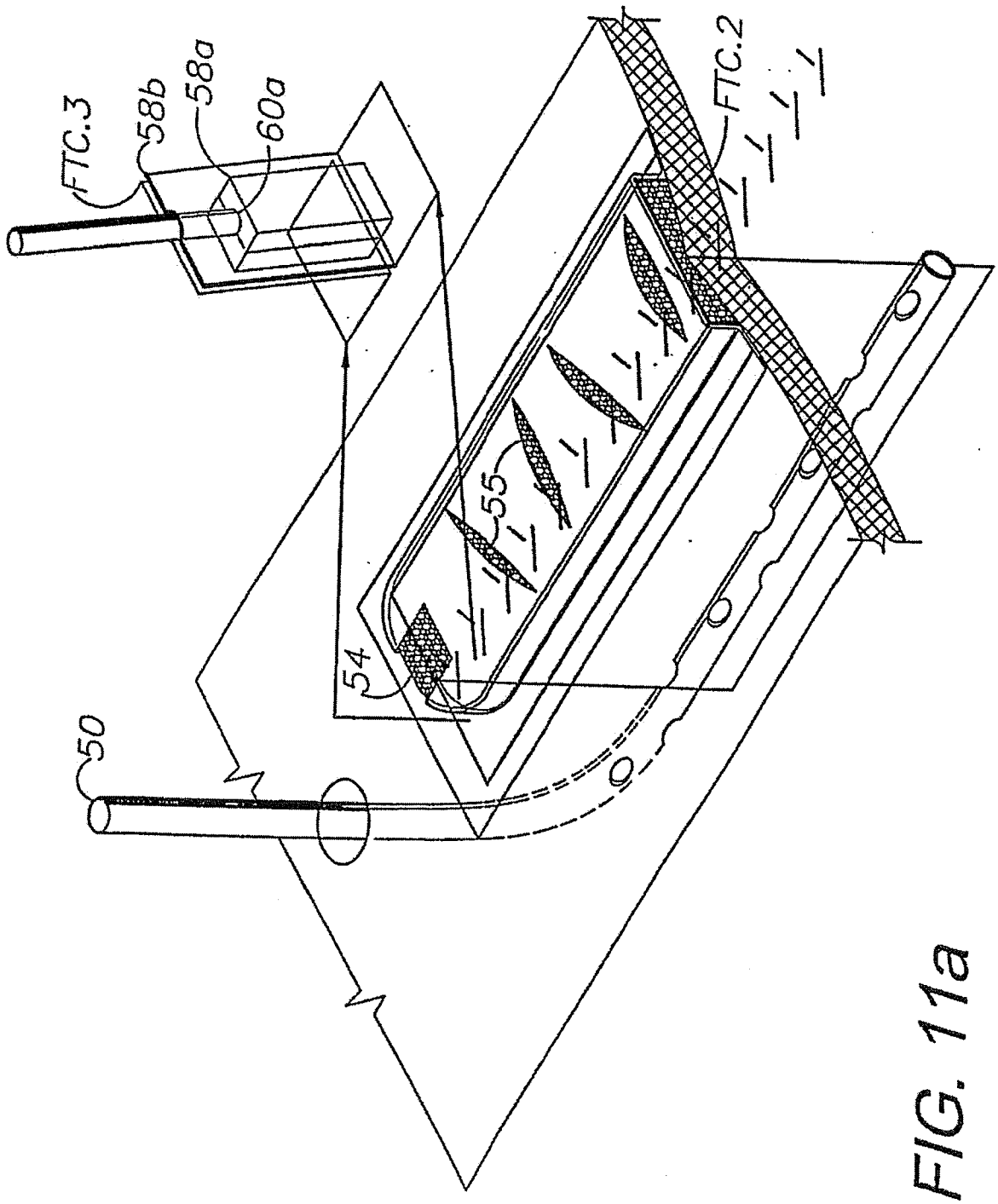


FIG. 11a

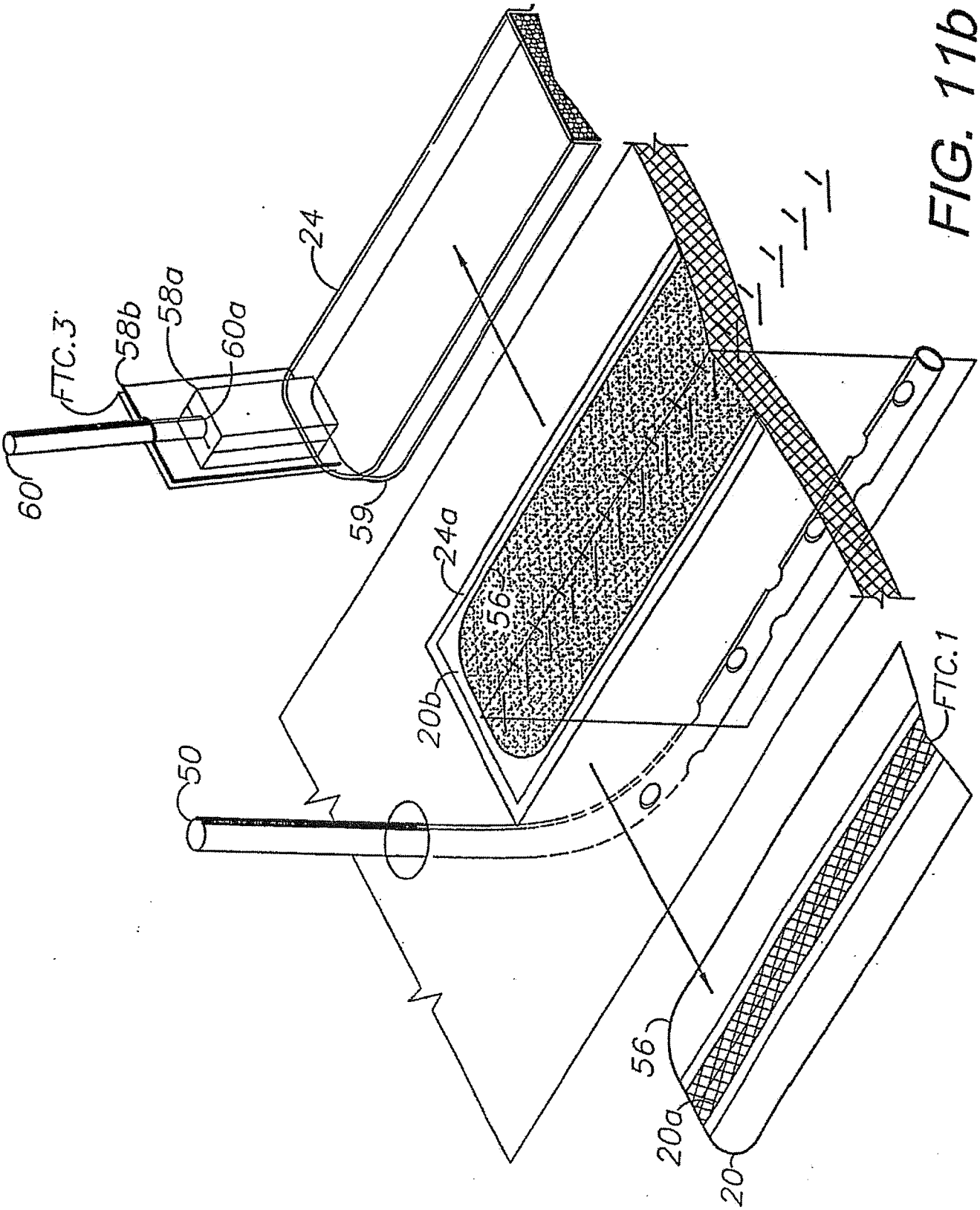


FIG. 11b

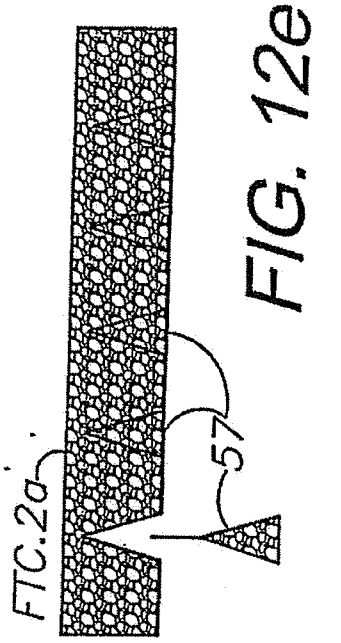


FIG. 12e

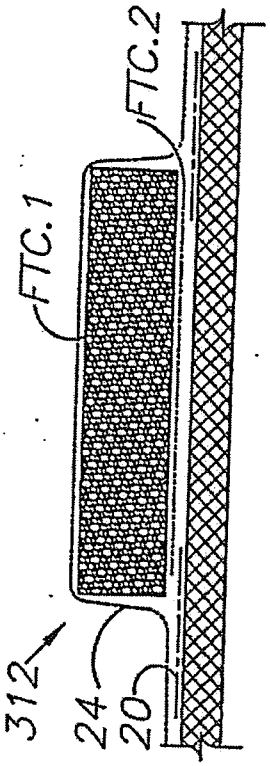


FIG. 12g

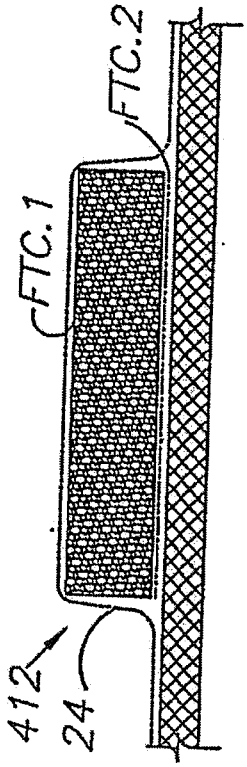


FIG. 12h

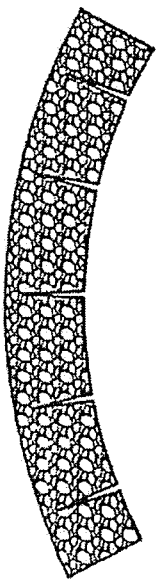


FIG. 12f

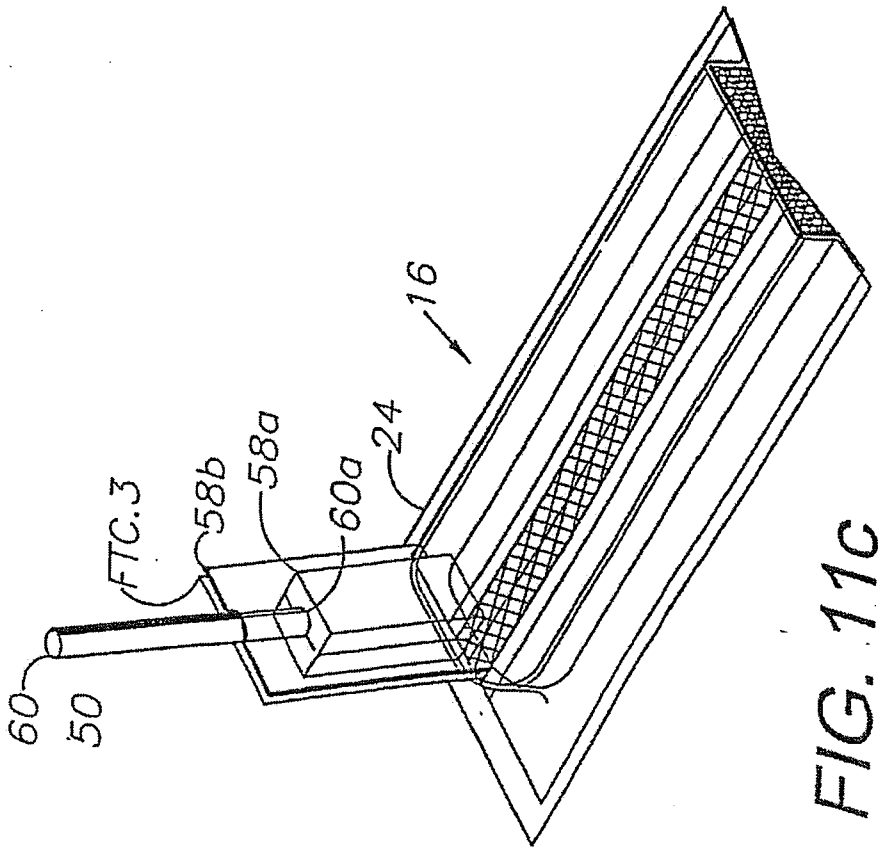


FIG. 11c

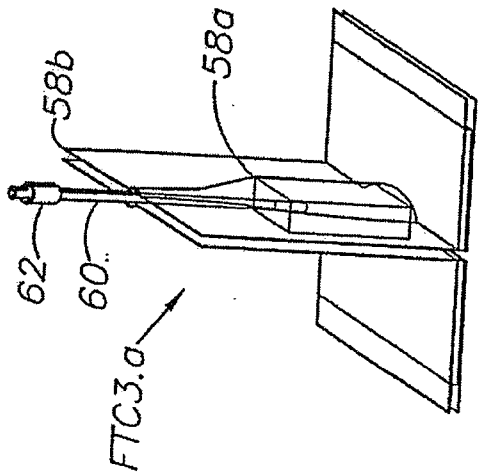


FIG. 12a

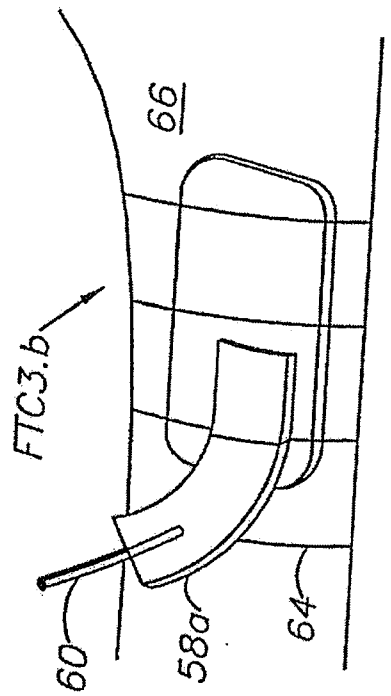


FIG. 12b

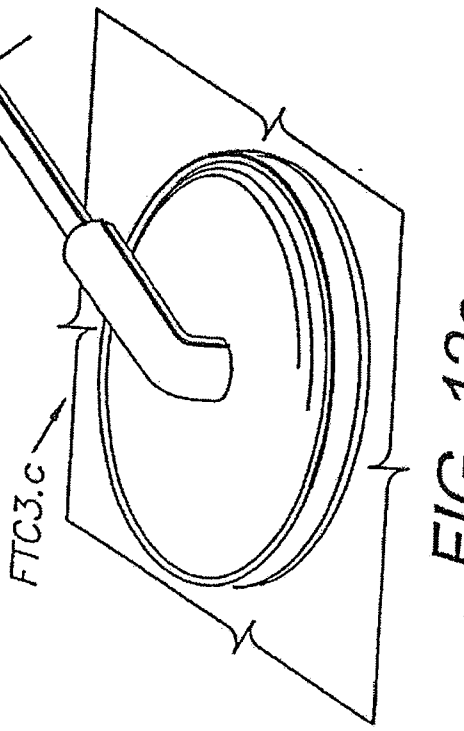


FIG. 12c

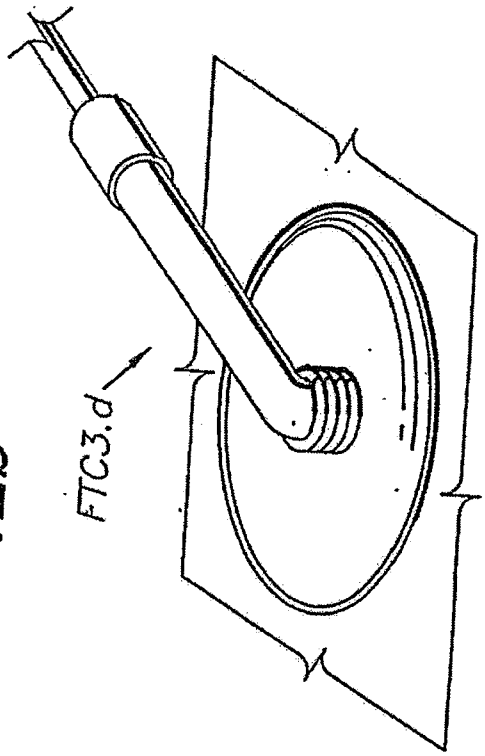


FIG. 12d

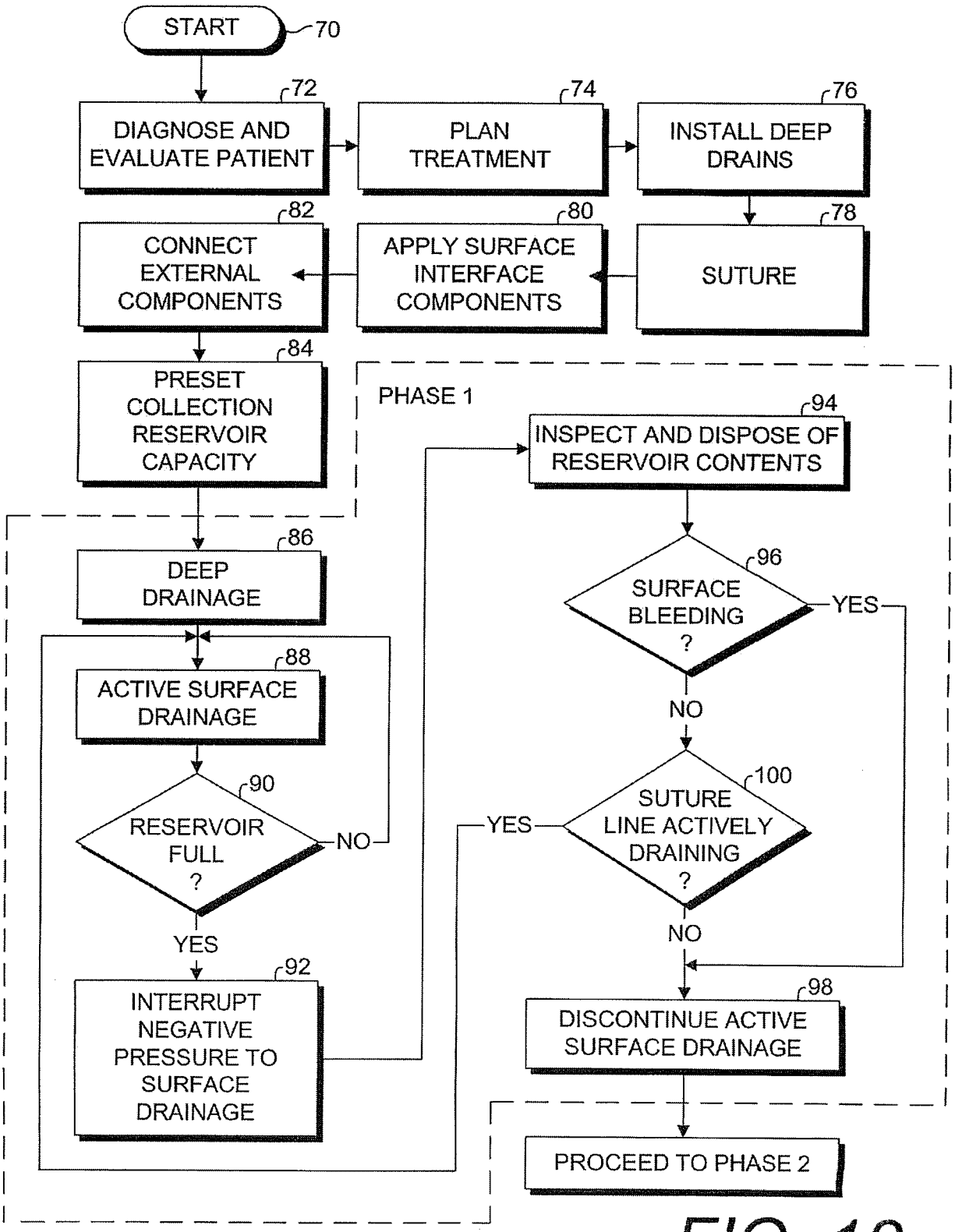

START
70
72
DIAGNOSE AND EVALUATE PATIENT
74
PLAN TREATMENT
76
INSTALL DEEP DRAINS
82
CONNECT EXTERNAL COMPONENTS
80
APPLY SURFACE INTERFACE COMPONENTS
78
SUTURE
84
PRESET COLLECTION RESERVOIR CAPACITY
PHASE 1
94
INSPECT AND DISPOSE OF RESERVOIR CONTENTS
86
DEEP DRAINAGE
96
SURFACE BLEEDING ?
YES
NO
88
ACTIVE SURFACE DRAINAGE
90
RESERVOIR FULL ?
NO
YES
100
SUTURE LINE ACTIVELY DRAINING ?
YES
NO
92
INTERRUPT NEGATIVE PRESSURE TO SURFACE DRAINAGE
98
DISCONTINUE ACTIVE SURFACE DRAINAGE
PROCEED TO PHASE 2

FIG. 13a

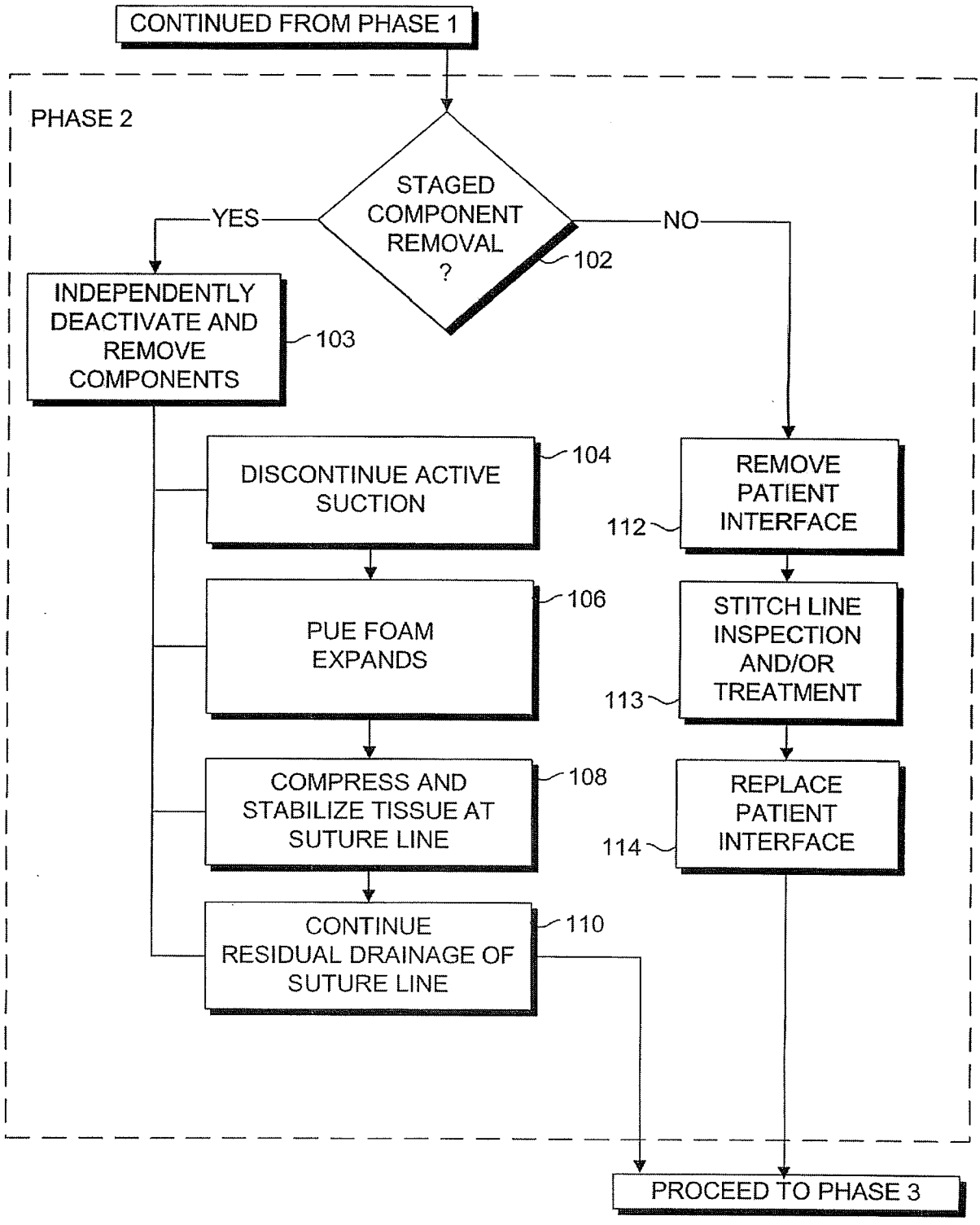

CONTINUED FROM PHASE 1
PHASE 2
STAGED COMPONENT REMOVAL ?
102
YES
NO
INDEPENDENTLY DEACTIVATE AND REMOVE COMPONENTS
103
DISCONTINUE ACTIVE SUCTION
104
PUE FOAM EXPANDS
106
COMPRESS AND STABILIZE TISSUE AT SUTURE LINE
108
CONTINUE RESIDUAL DRAINAGE OF SUTURE LINE
110
REMOVE PATIENT INTERFACE
112
STITCH LINE INSPECTION AND/OR TREATMENT
113
REPLACE PATIENT INTERFACE
114
PROCEED TO PHASE 3

FIG. 13b

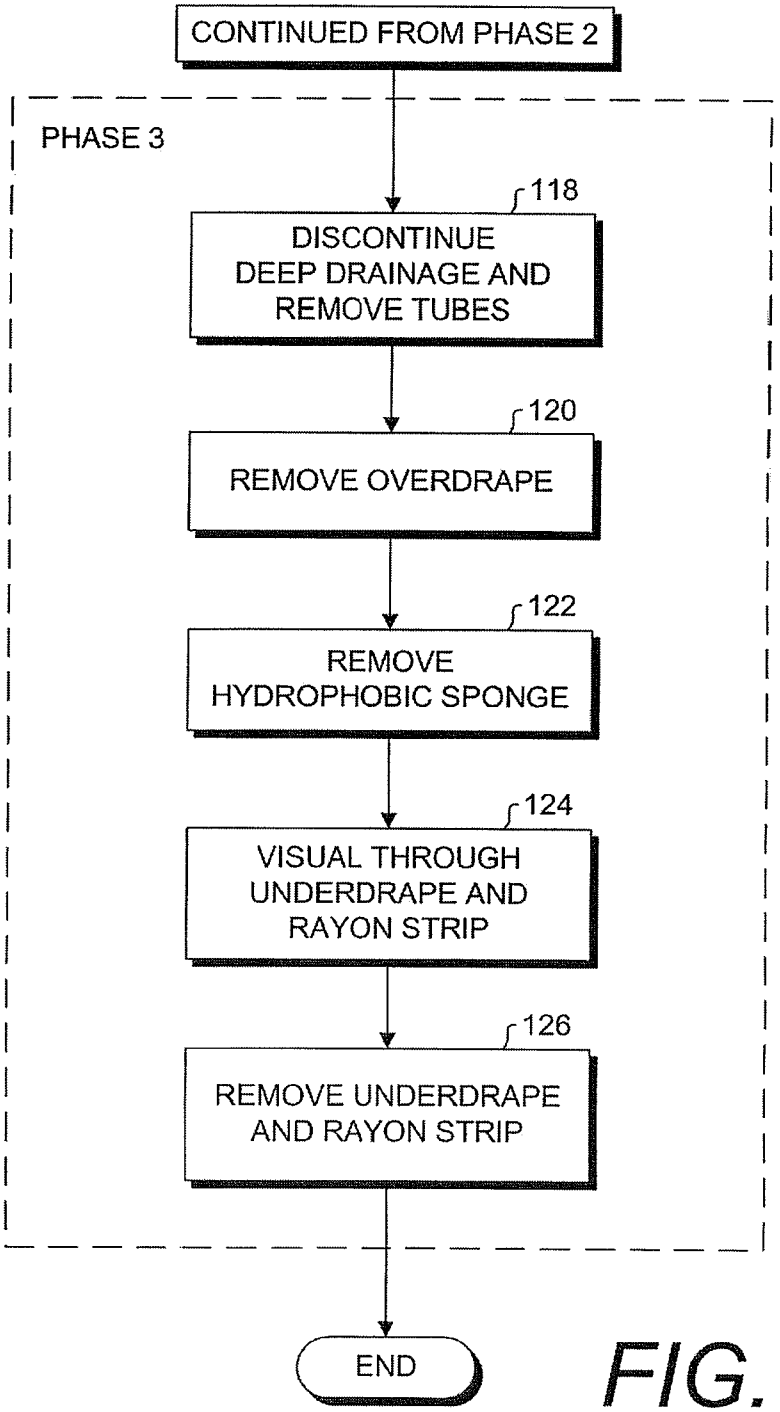

CONTINUED FROM PHASE 2
PHASE 3
118
DISCONTINUE DEEP DRAINAGE AND REMOVE TUBES
120
REMOVE OVERDRAPE
122
REMOVE HYDROPHOBIC SPONGE
124
VISUAL THROUGH UNDERDRAPE AND RAYON STRIP
126
REMOVE UNDERDRAPE AND RAYON STRIP
END

FIG. 13c

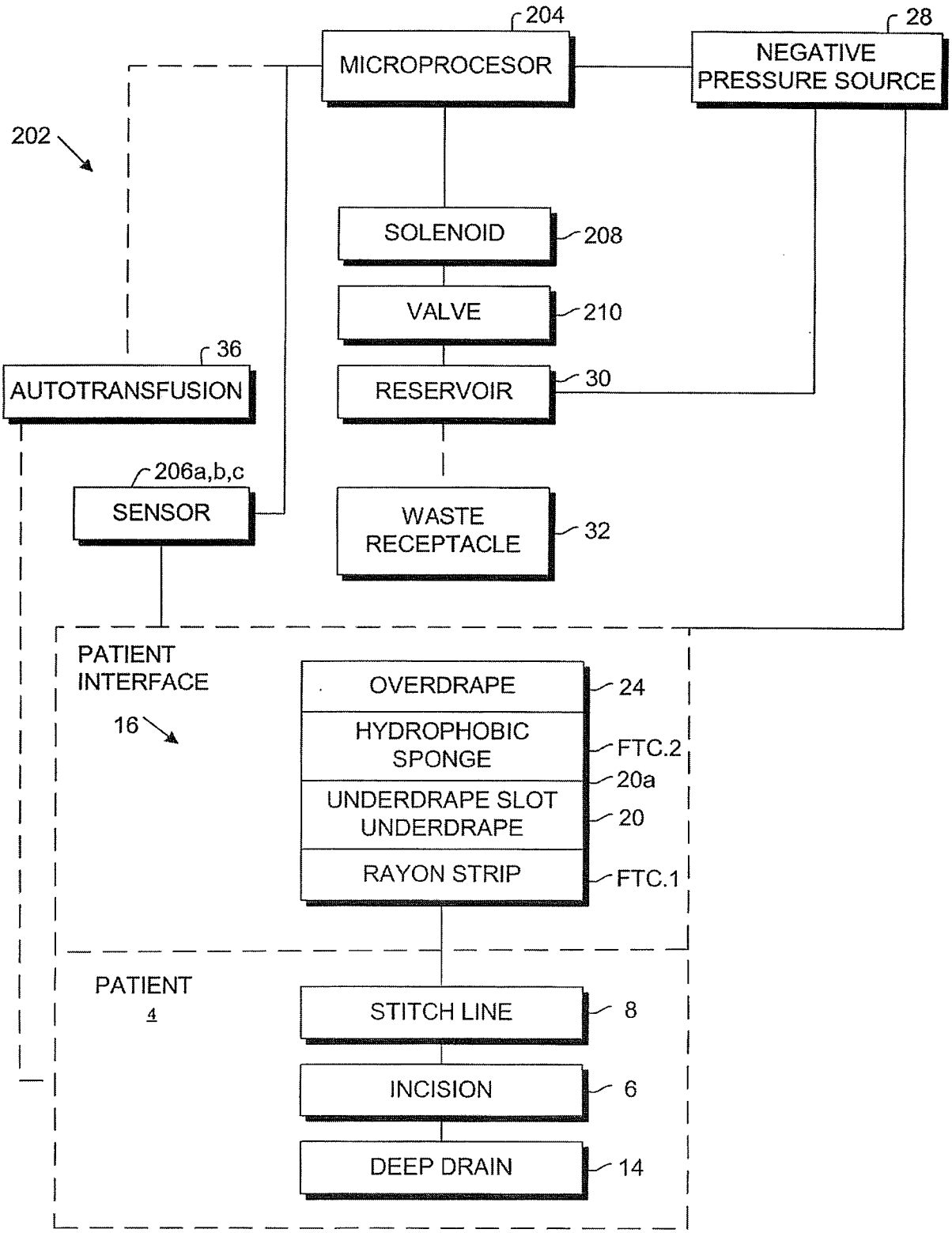

204
MICROPROCESOR
28
NEGATIVE PRESSURE SOURCE
202
SOLENOID
208
VALVE
210
36
AUTOTRANSFUSION
RESERVOIR
30
206a,b,c
SENSOR
WASTE RECEPTACLE
32
PATIENT INTERFACE
16
OVERDRAPE
24
HYDROPHOBIC SPONGE
FTC.2
20a
UNDERDRAPE SLOT UNDERDRAPE
20
RAYON STRIP
FTC.1
PATIENT
4
STITCH LINE
8
INCISION
6
DEEP DRAIN
14

FIG. 14

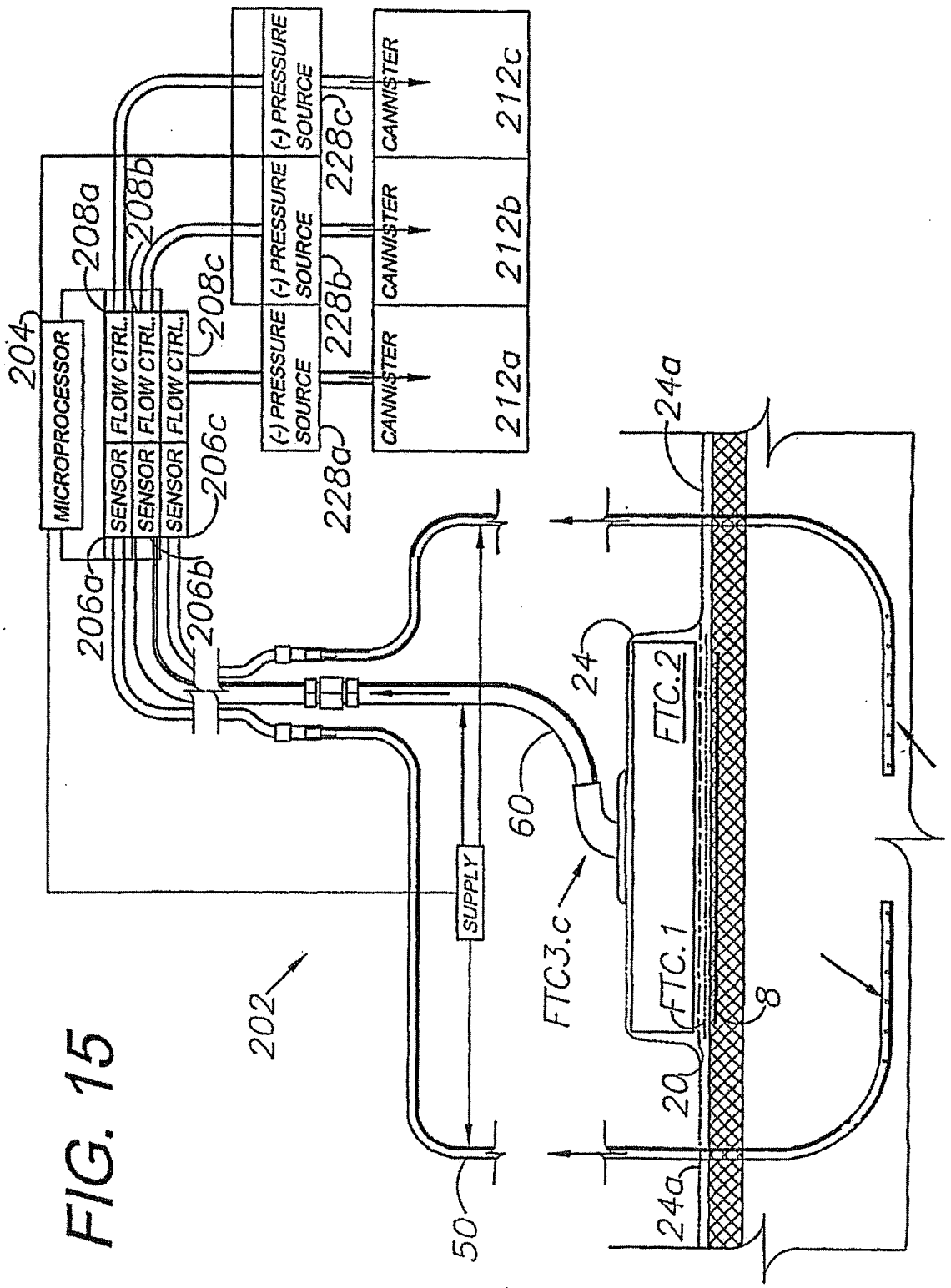

MICROPROCESSOR
204
SENSOR
FLOW CTRL.
206a
206b
206c
208a
208b
208c
(-) PRESSURE SOURCE
228a
228b
228c
CANNISTER
212a
212b
212c
202
SUPPLY
50
60
FTC3.c
FTC.1
FTC.2
20
24
24a
8

FIG. 15

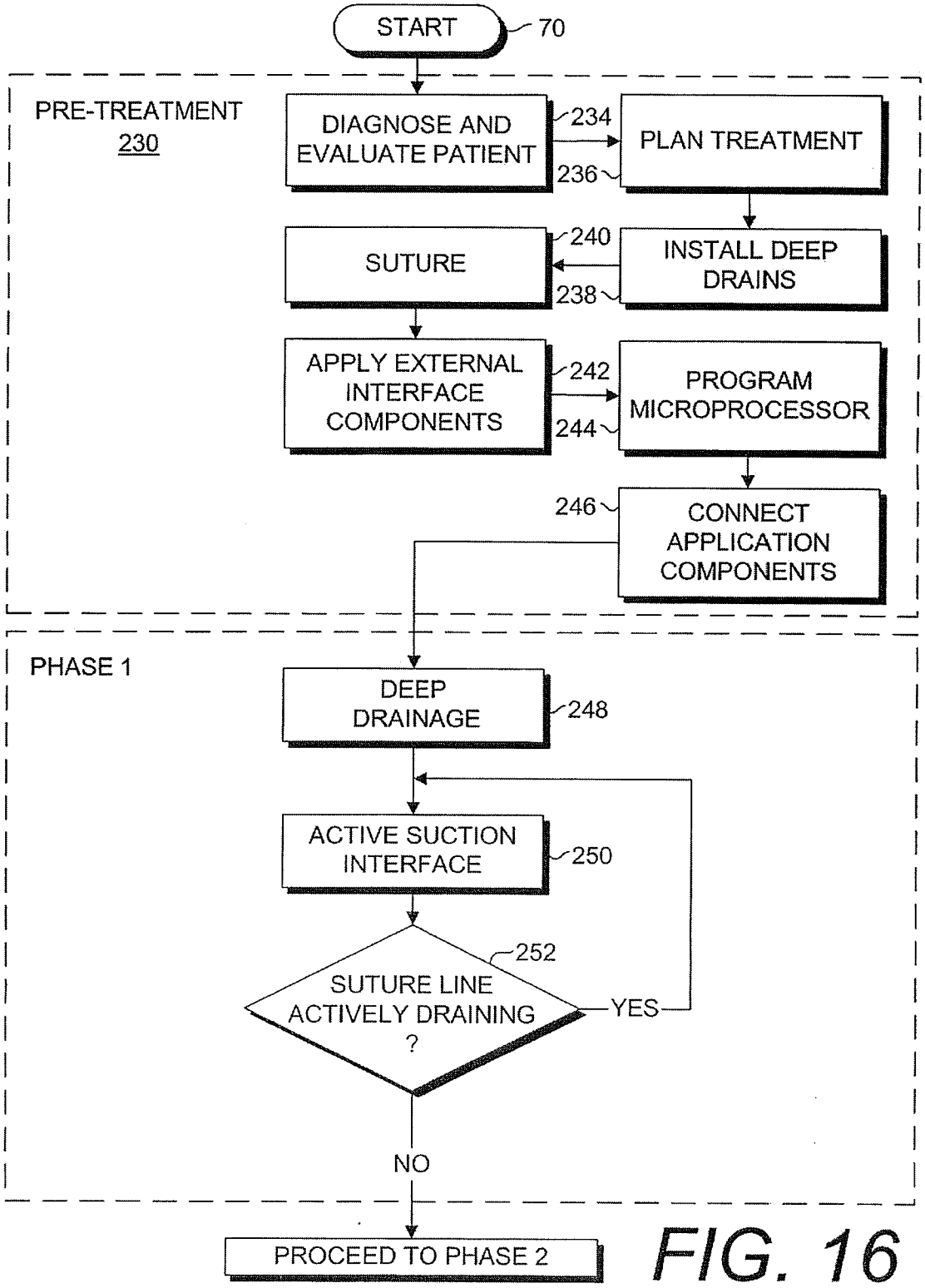

START
70
PRE-TREATMENT
230
DIAGNOSE AND EVALUATE PATIENT
234
236
PLAN TREATMENT
SUTURE
240
238
INSTALL DEEP DRAINS
APPLY EXTERNAL INTERFACE COMPONENTS
242
244
PROGRAM MICROPROCESSOR
246
CONNECT APPLICATION COMPONENTS
PHASE 1
DEEP DRAINAGE
248
ACTIVE SUCTION INTERFACE
250
252
SUTURE LINE ACTIVELY DRAINING ?
YES
NO
PROCEED TO PHASE 2

FIG. 16

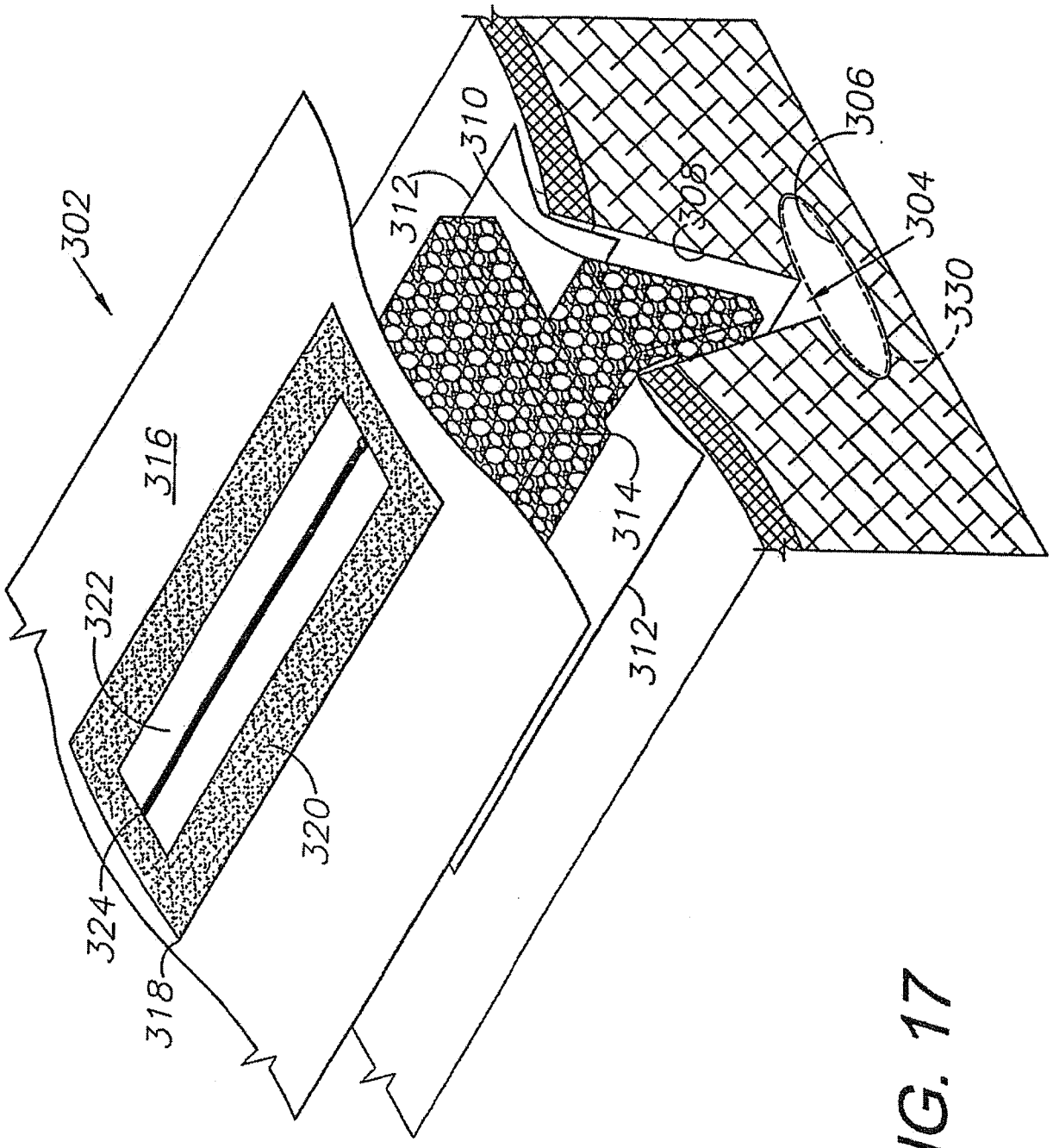


FIG. 17

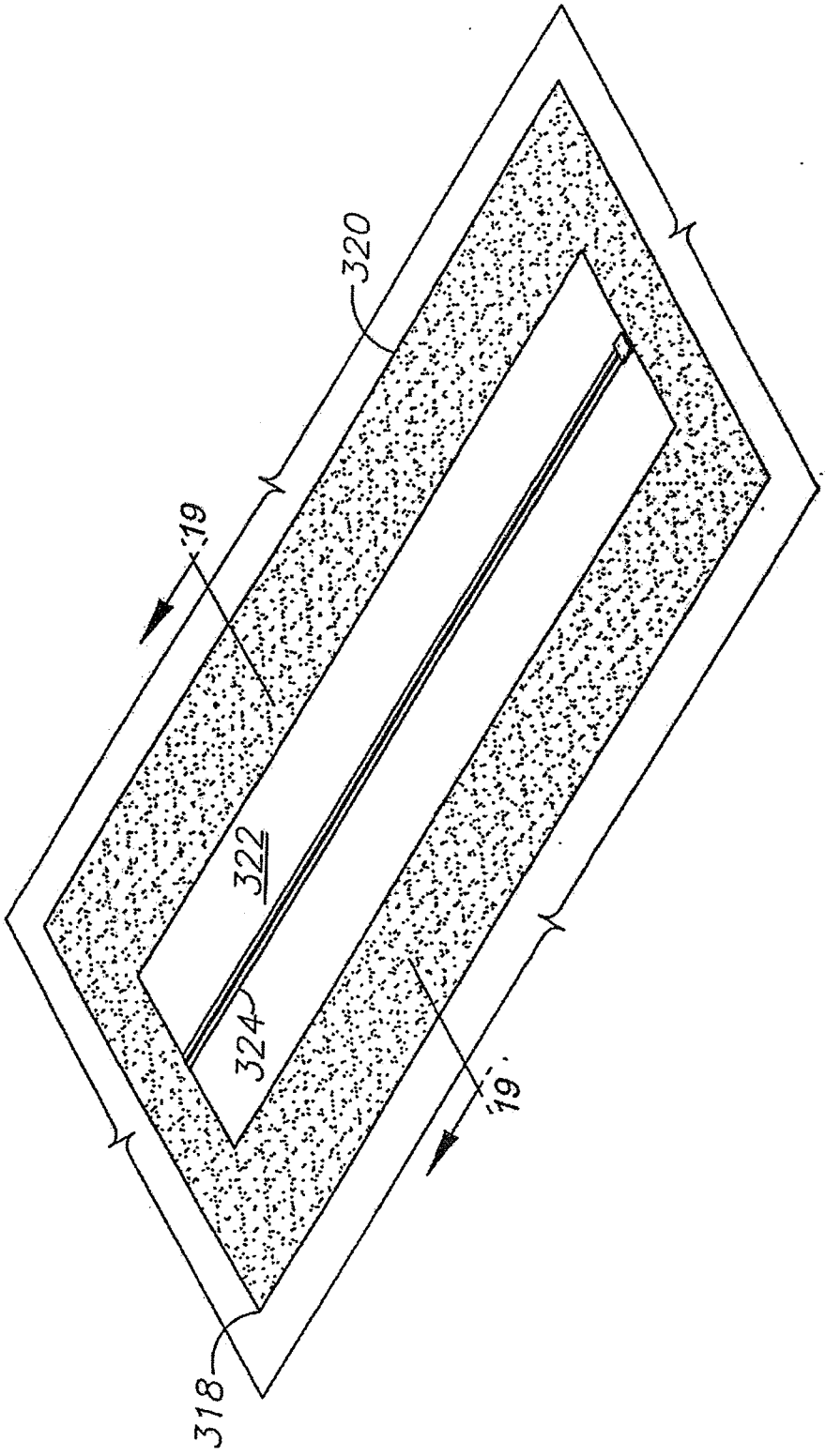


FIG. 18

FIG. 20

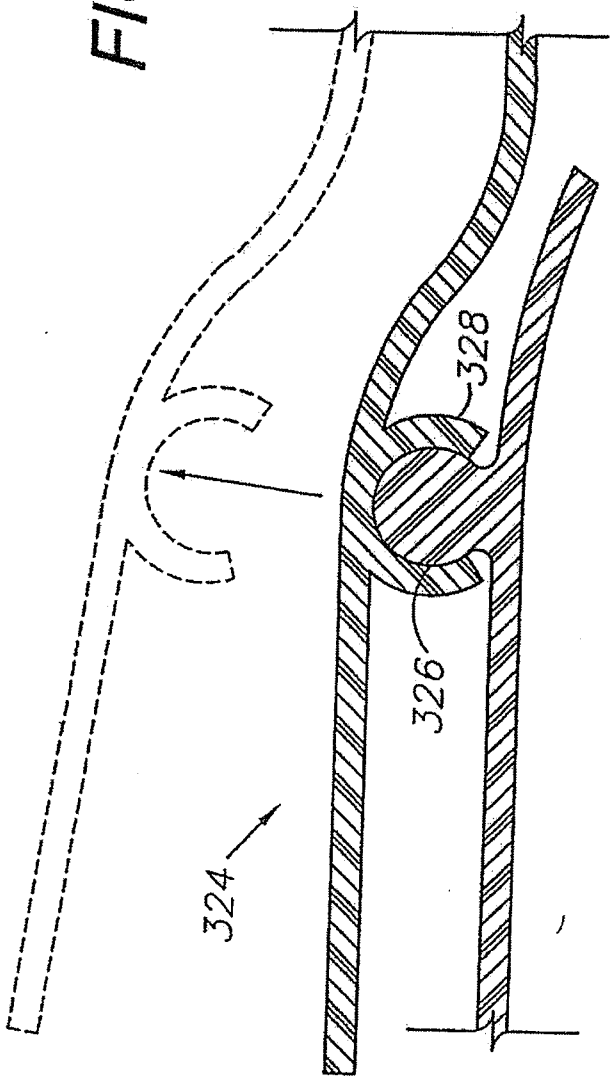
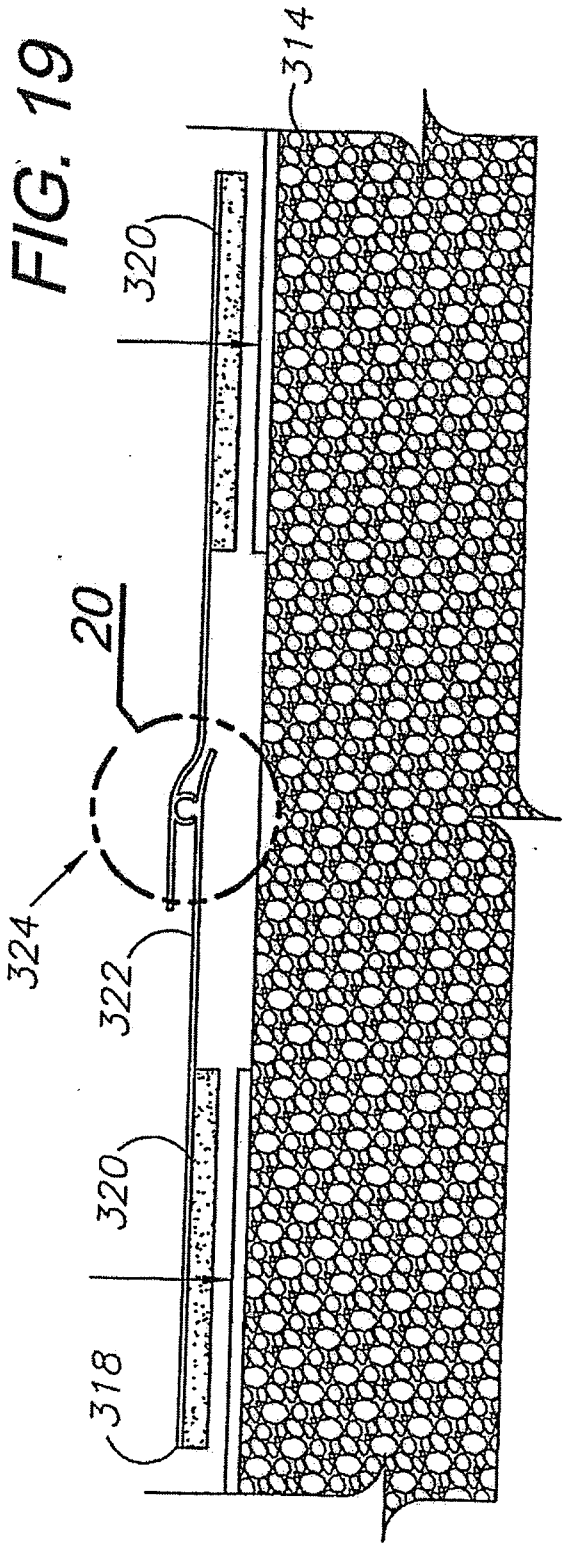


FIG. 19



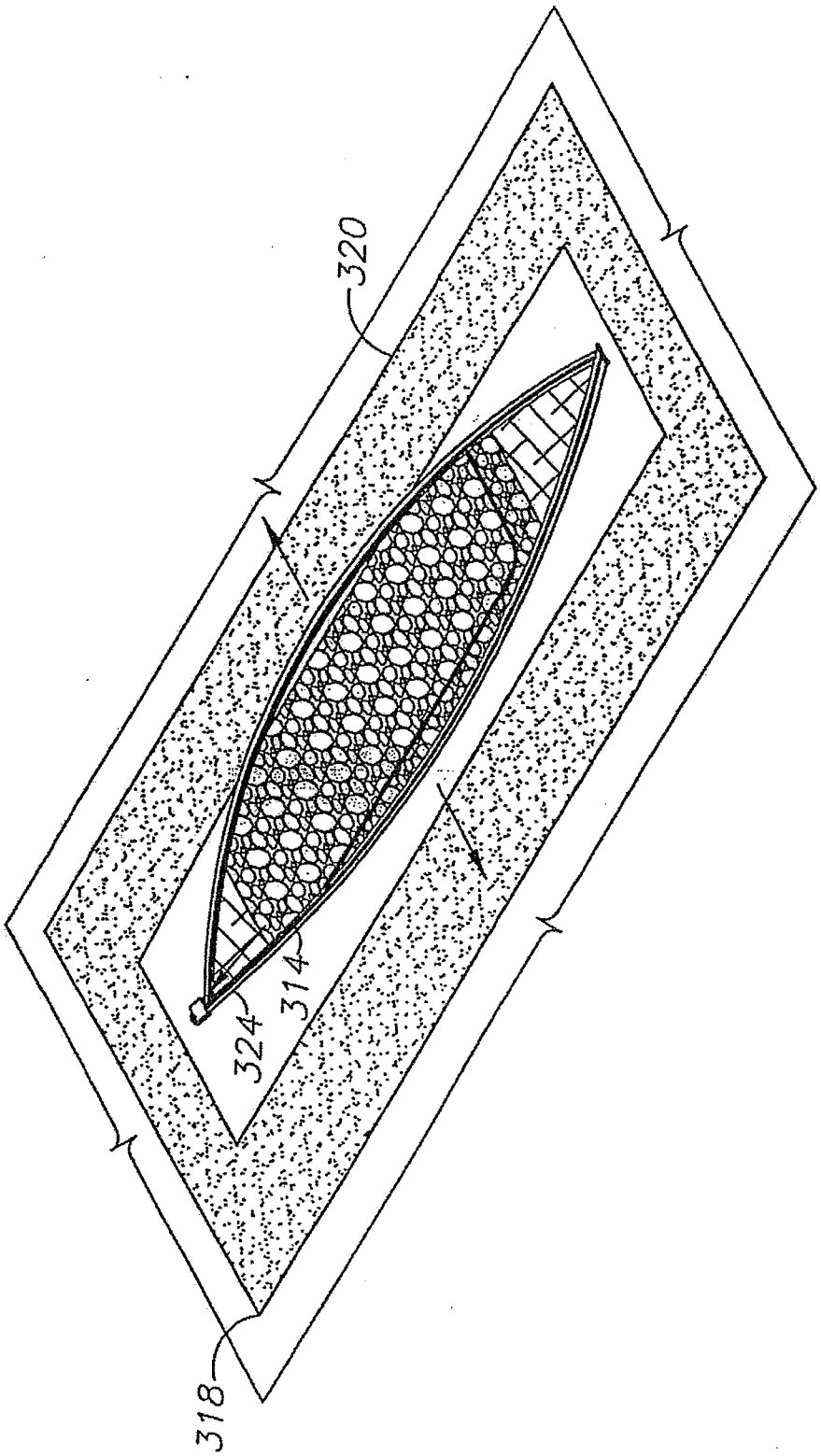


FIG. 21

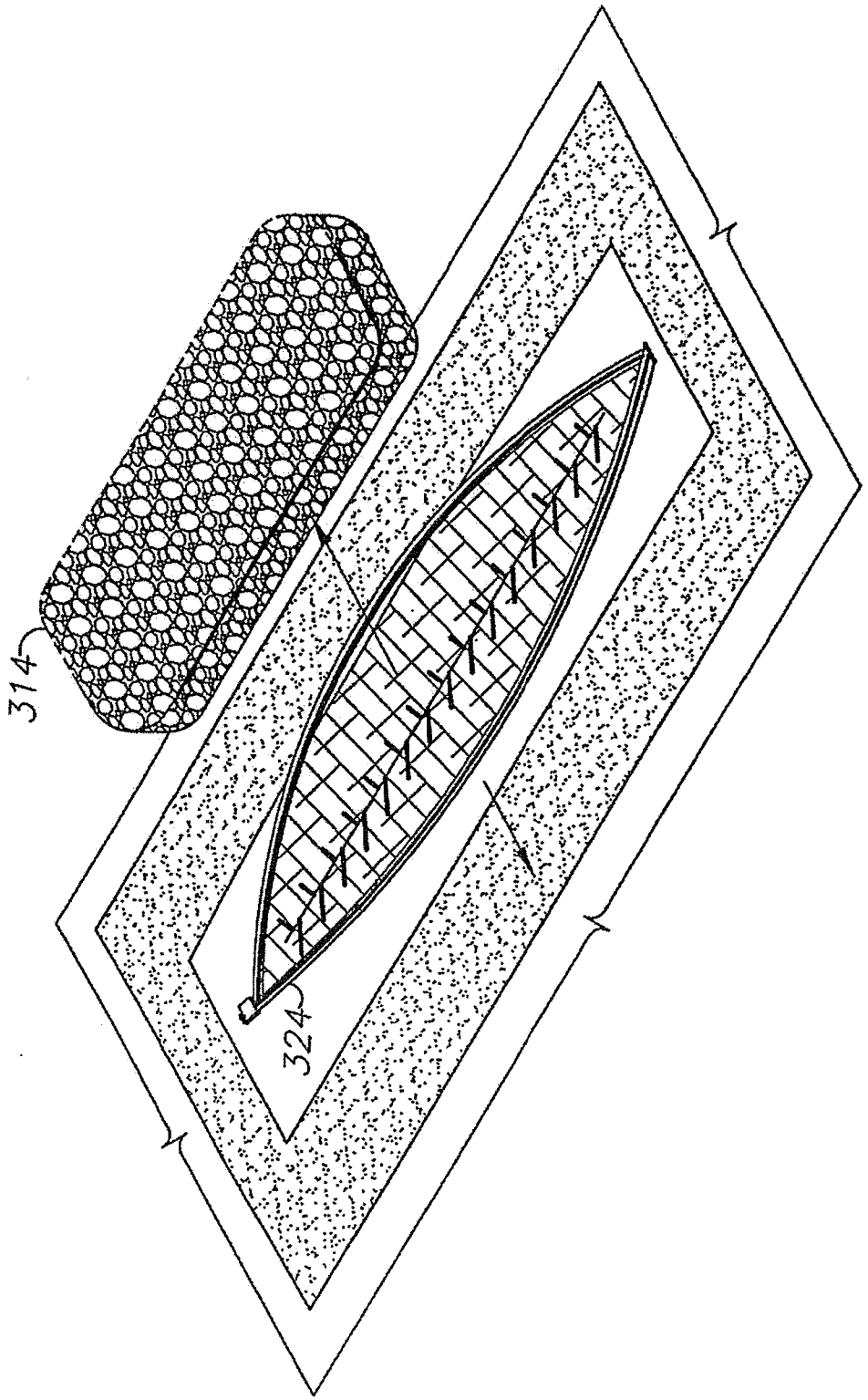


FIG. 22

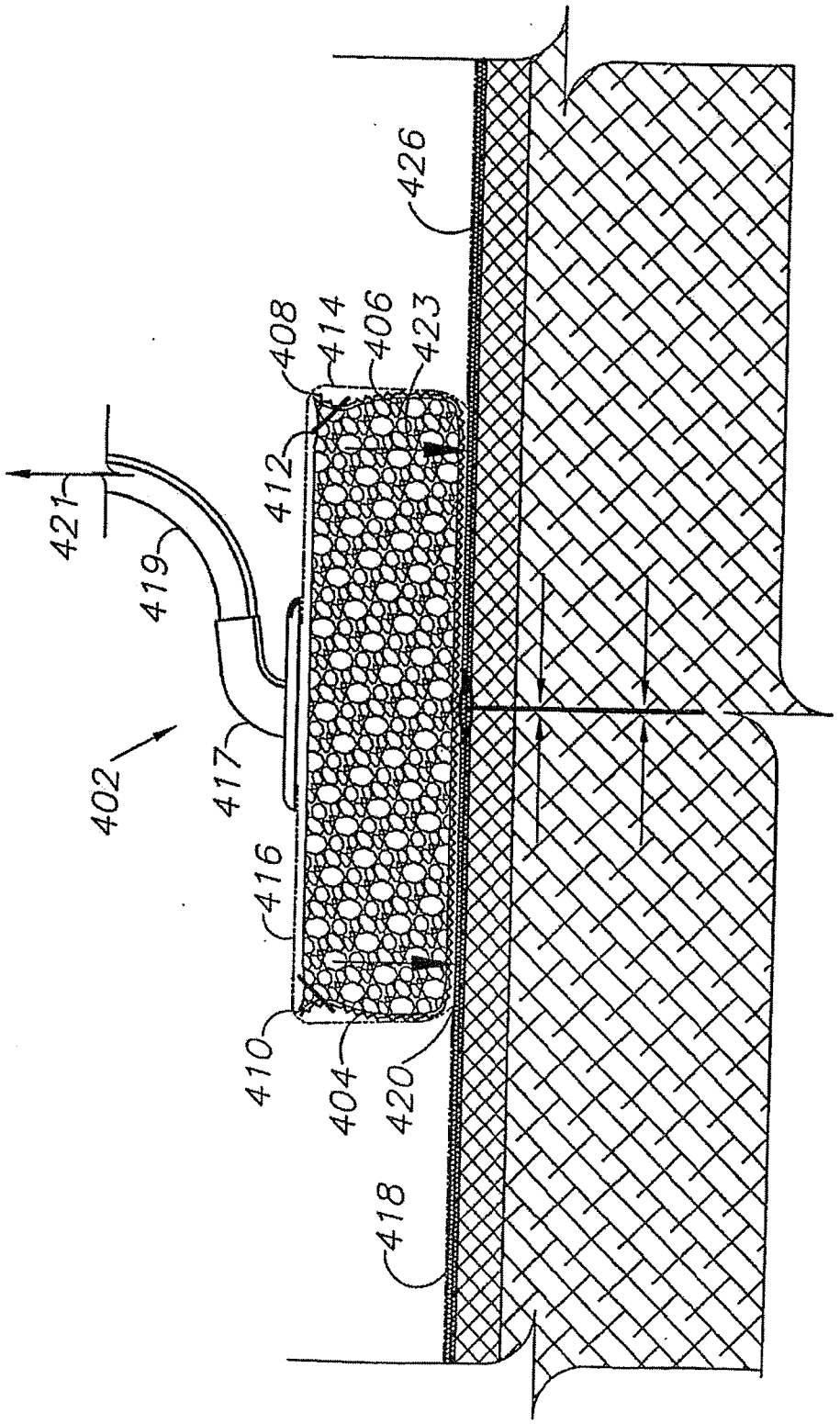


FIG. 23

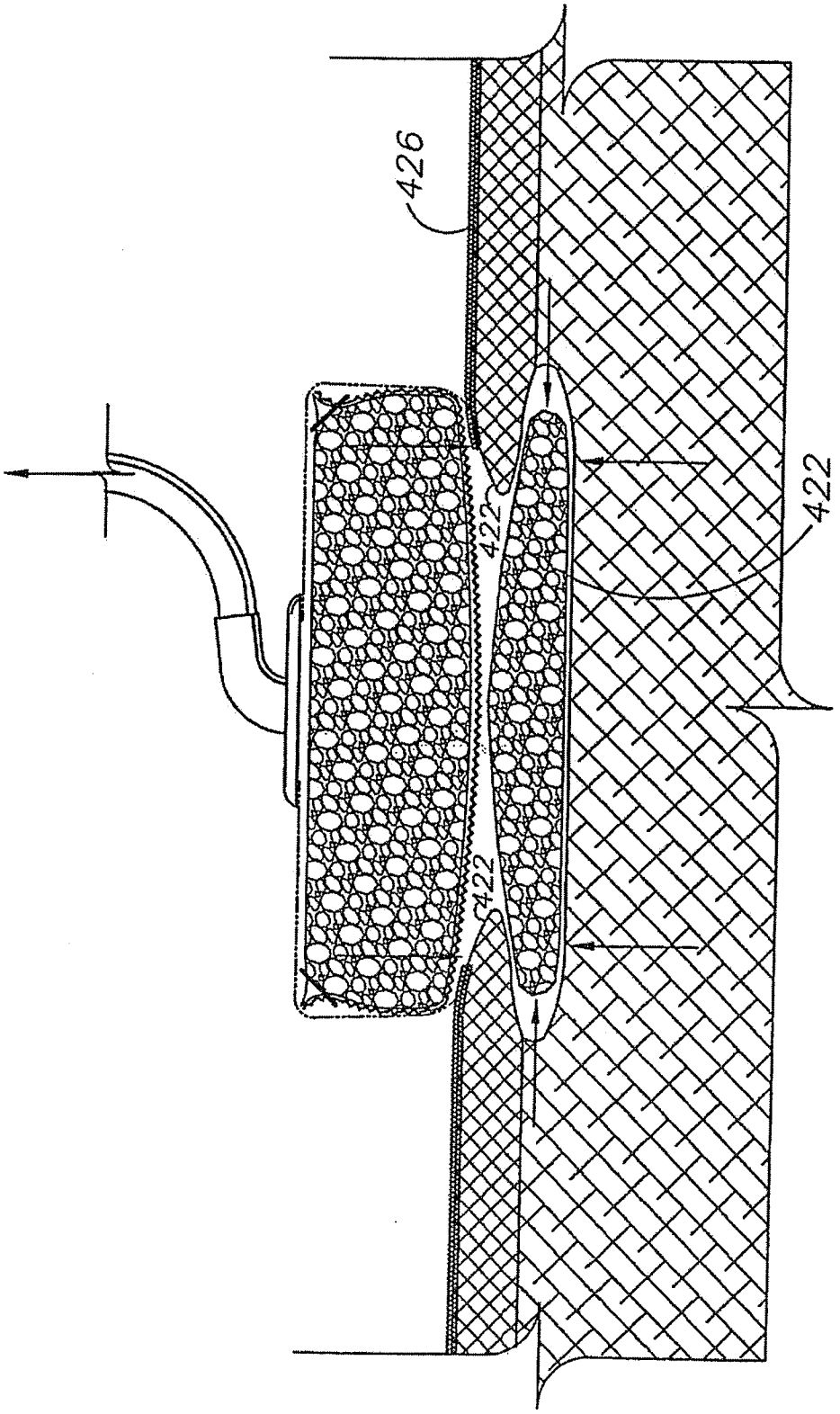


FIG. 24

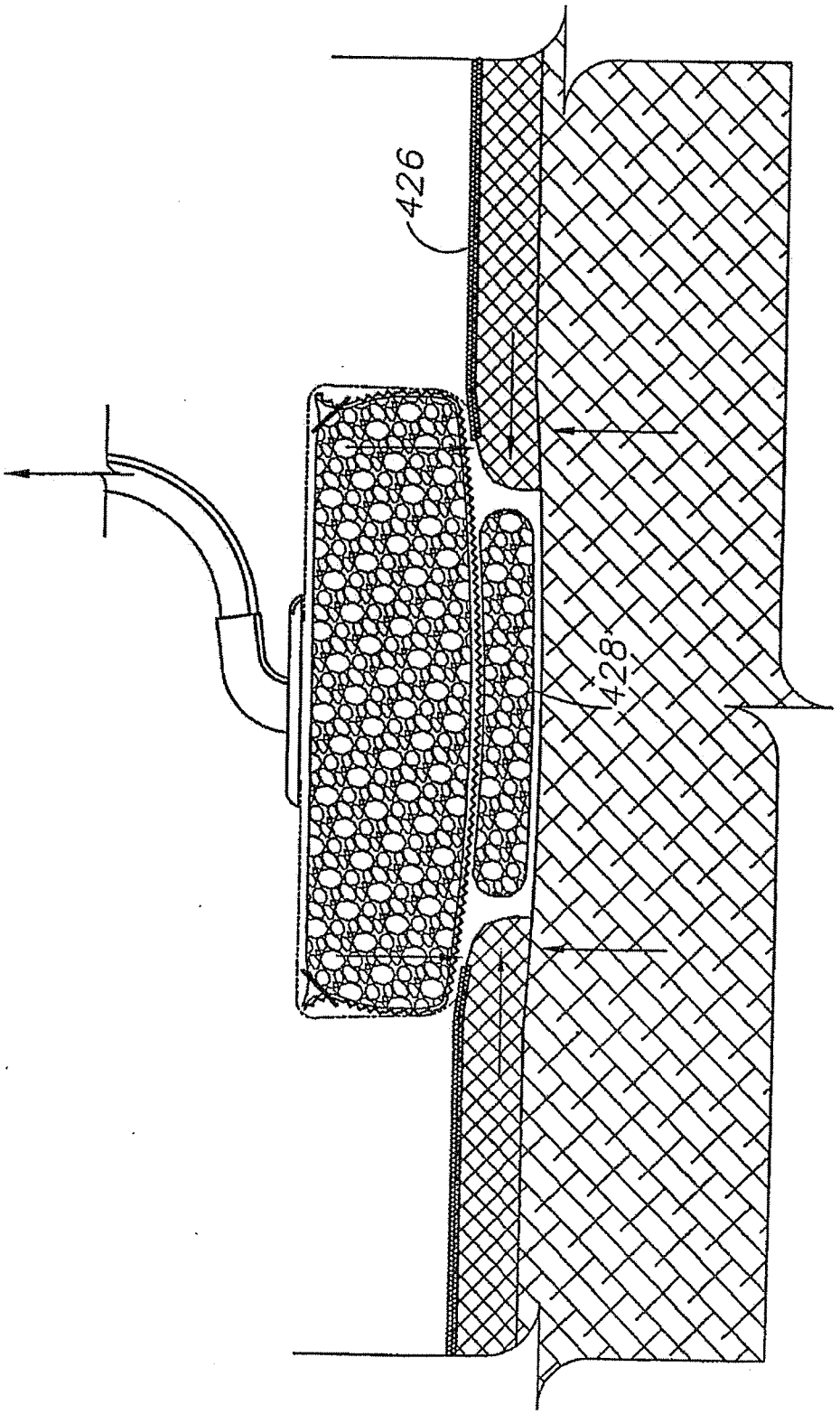


FIG. 25

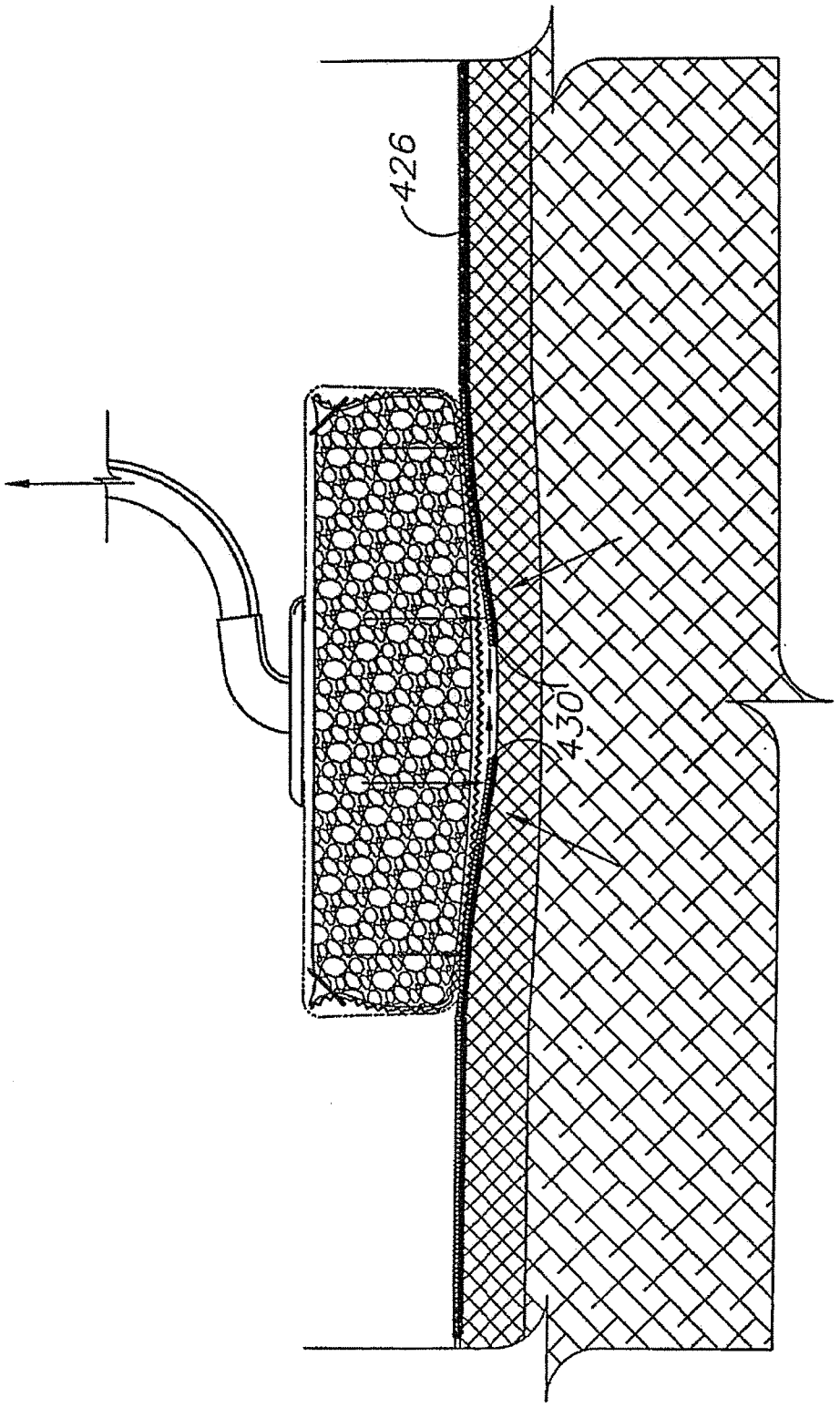


FIG. 26

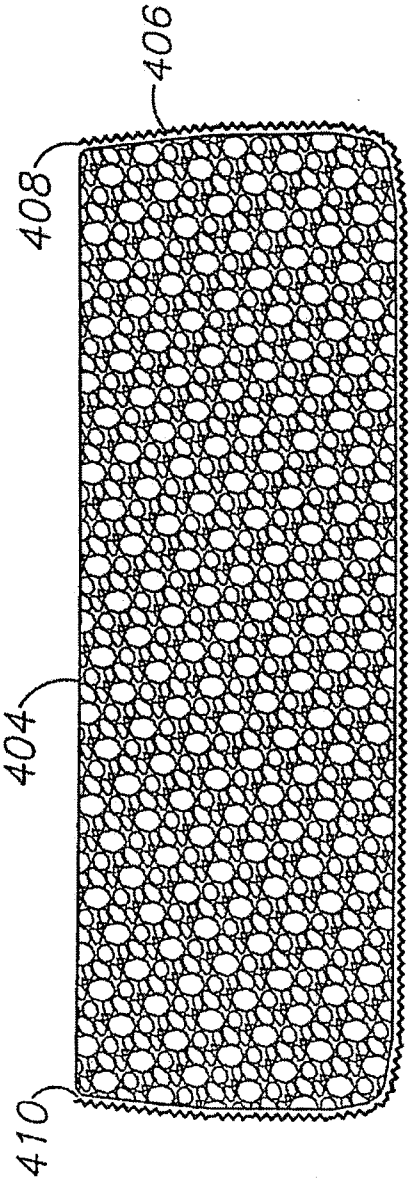


FIG. 27

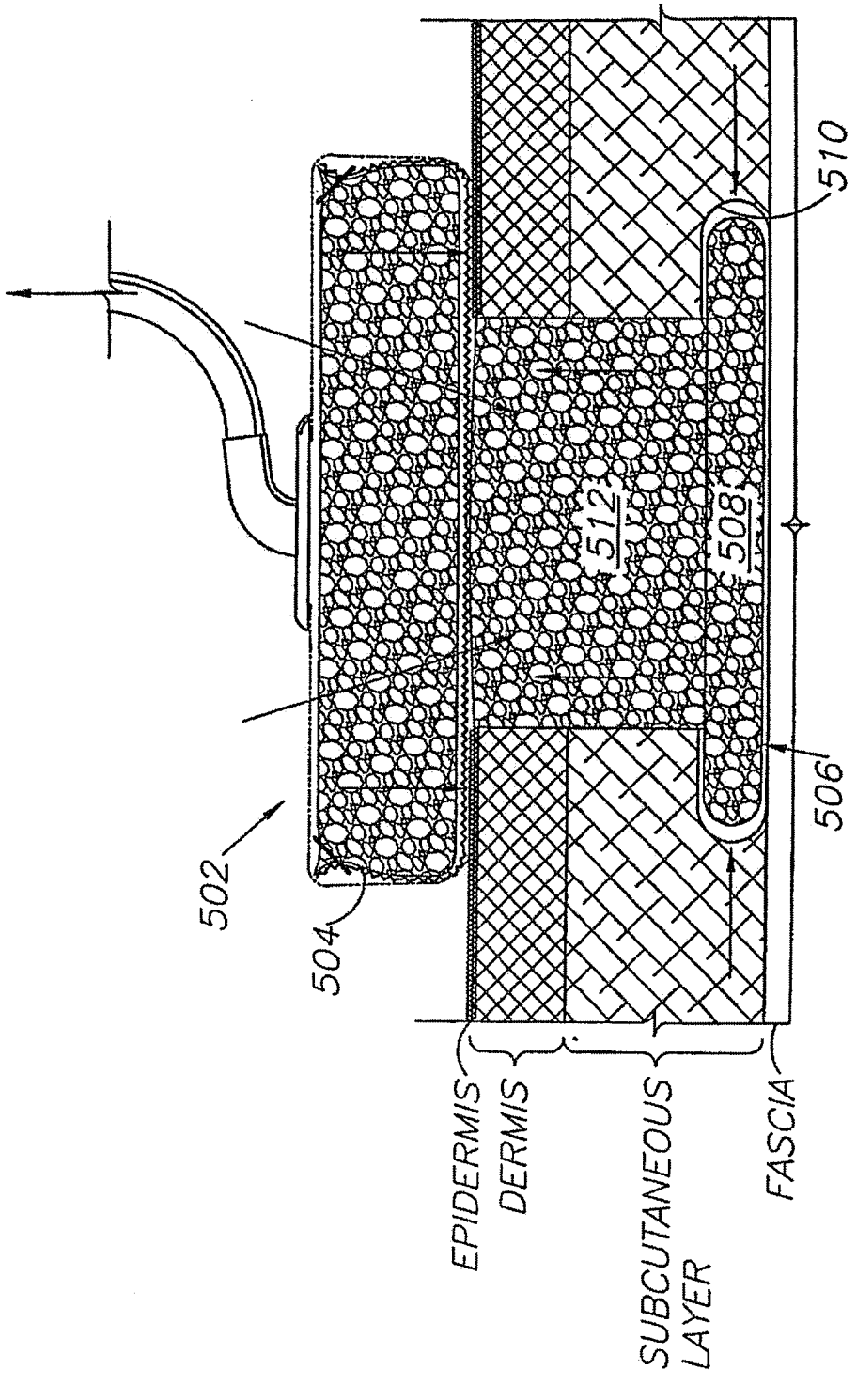

502
504
512
508
510
506
EPIDERMIS
DERMIS
SUBCUTANEOUS
LAYER
FASCIA

FIG. 28

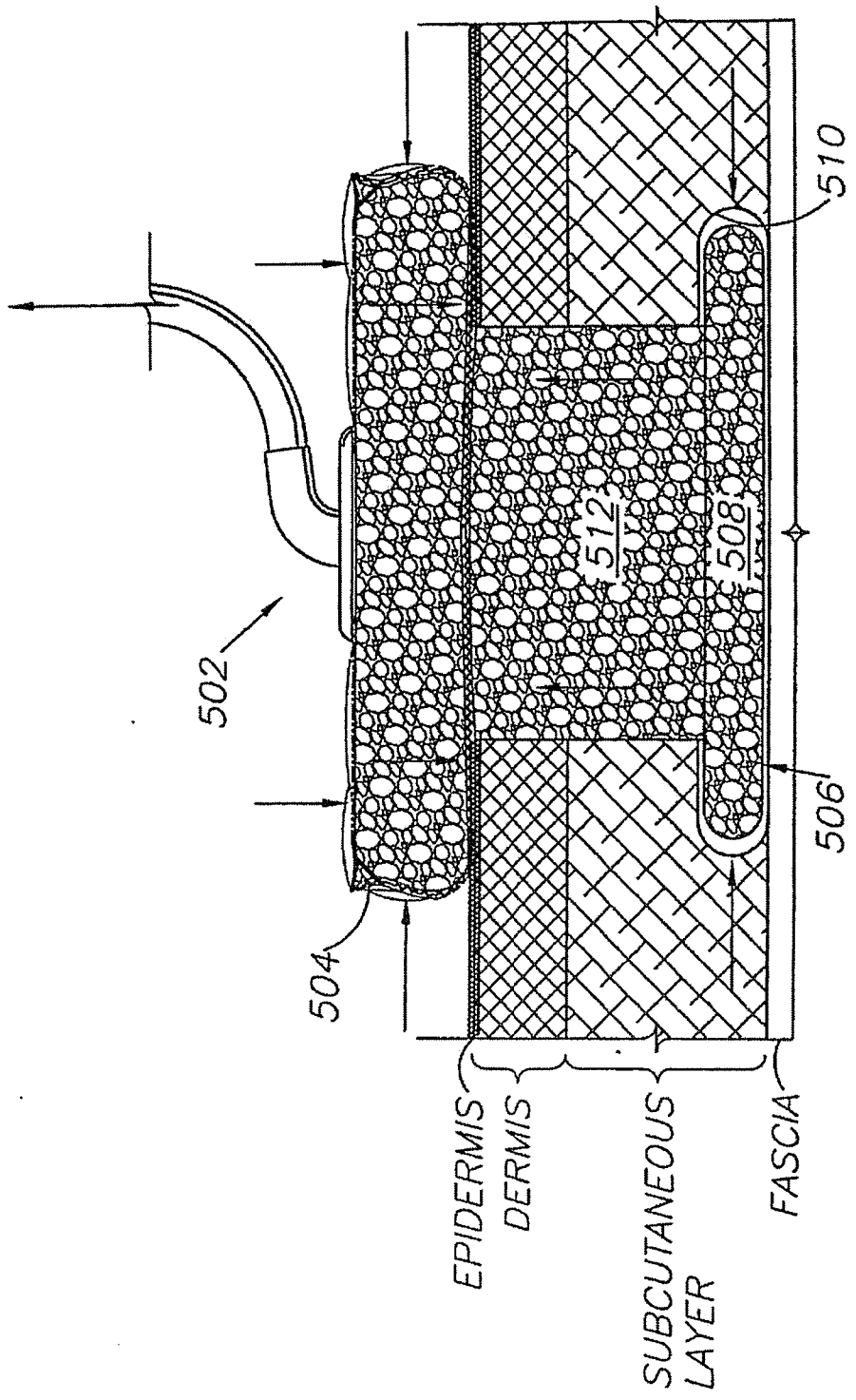

502
504
506
508
510
512
EPIDERMIS
DERMIS
SUBCUTANEOUS LAYER
FASCIA

FIG. 29

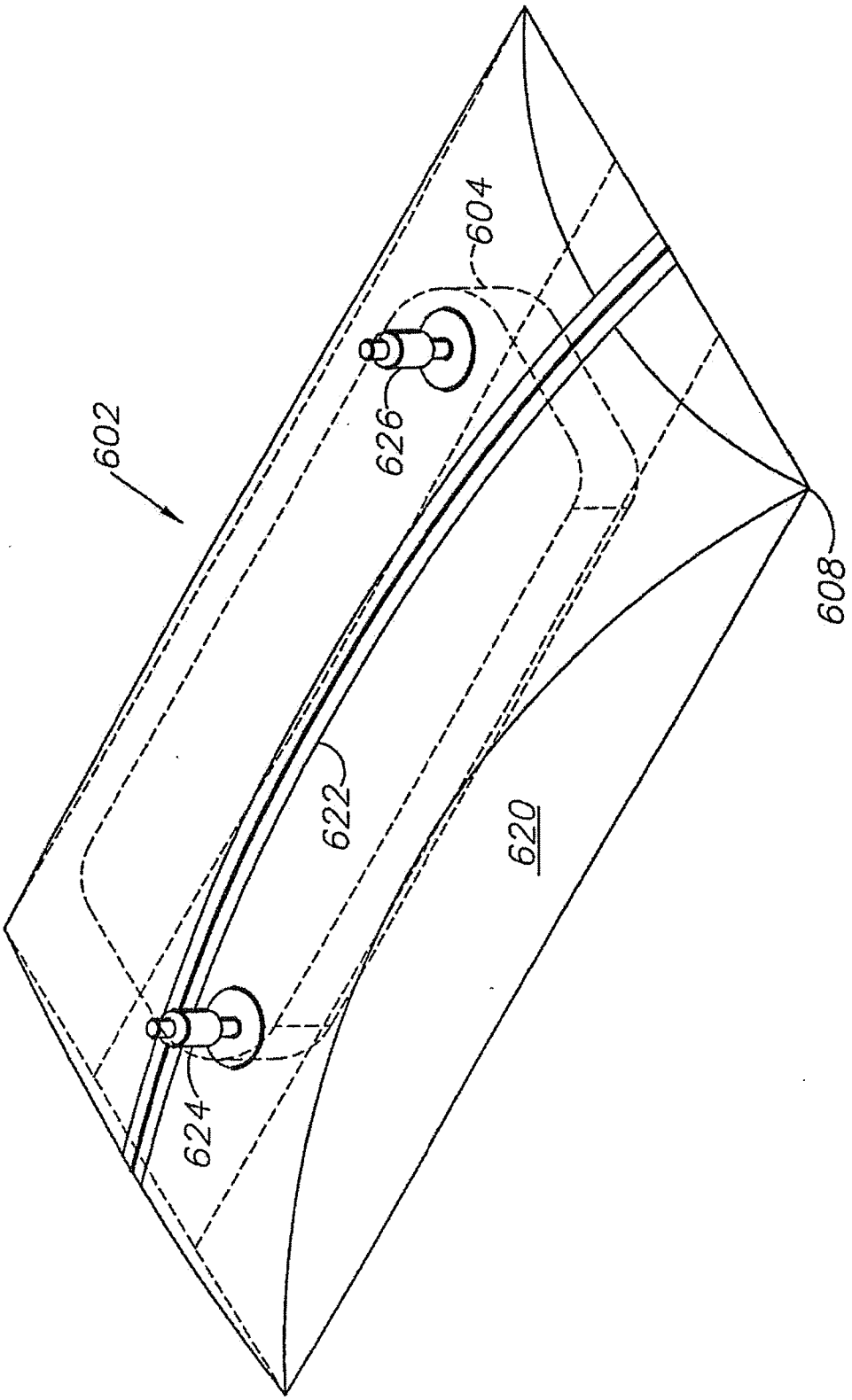


FIG. 30

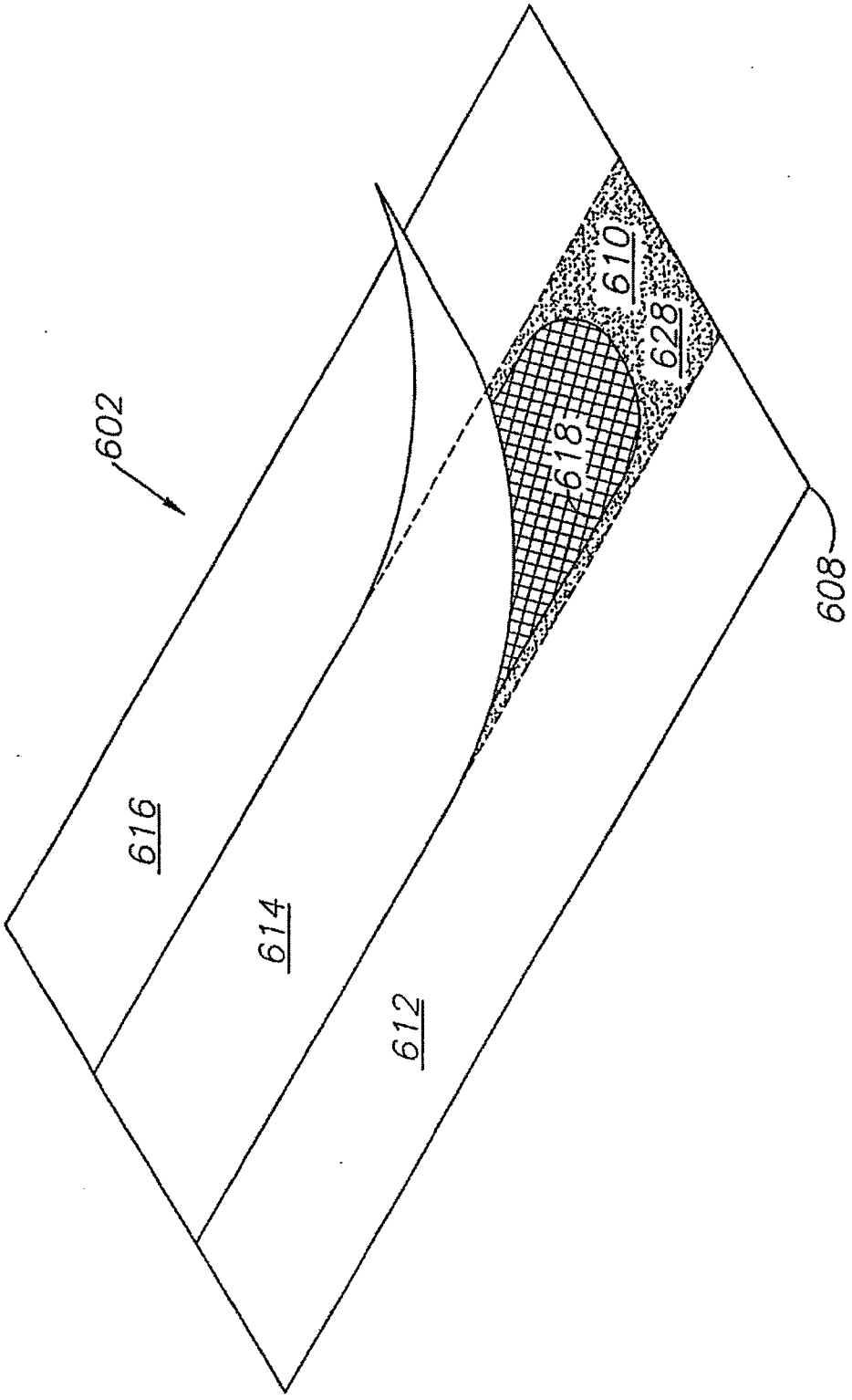


FIG. 31

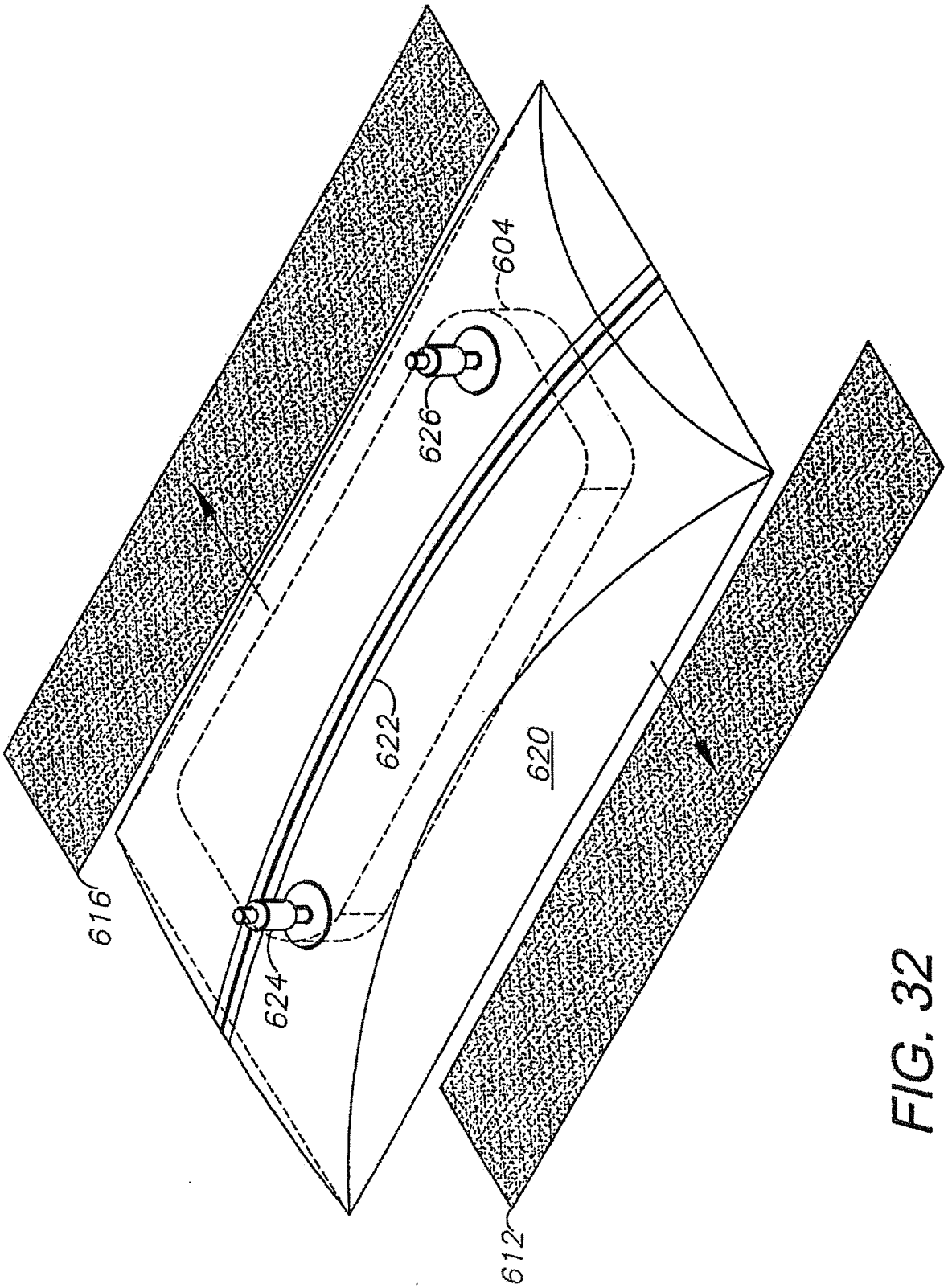


FIG. 32

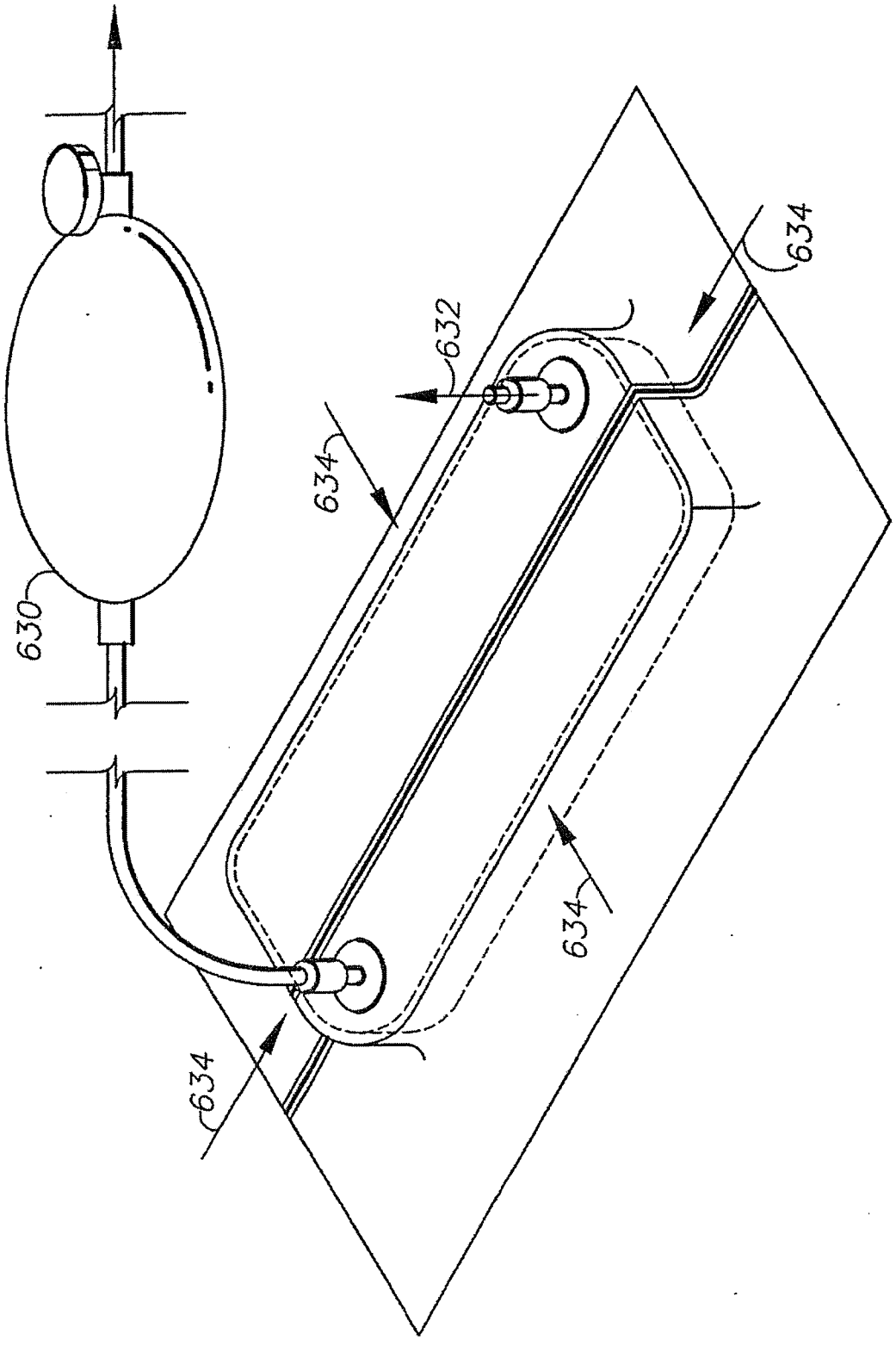


FIG. 33

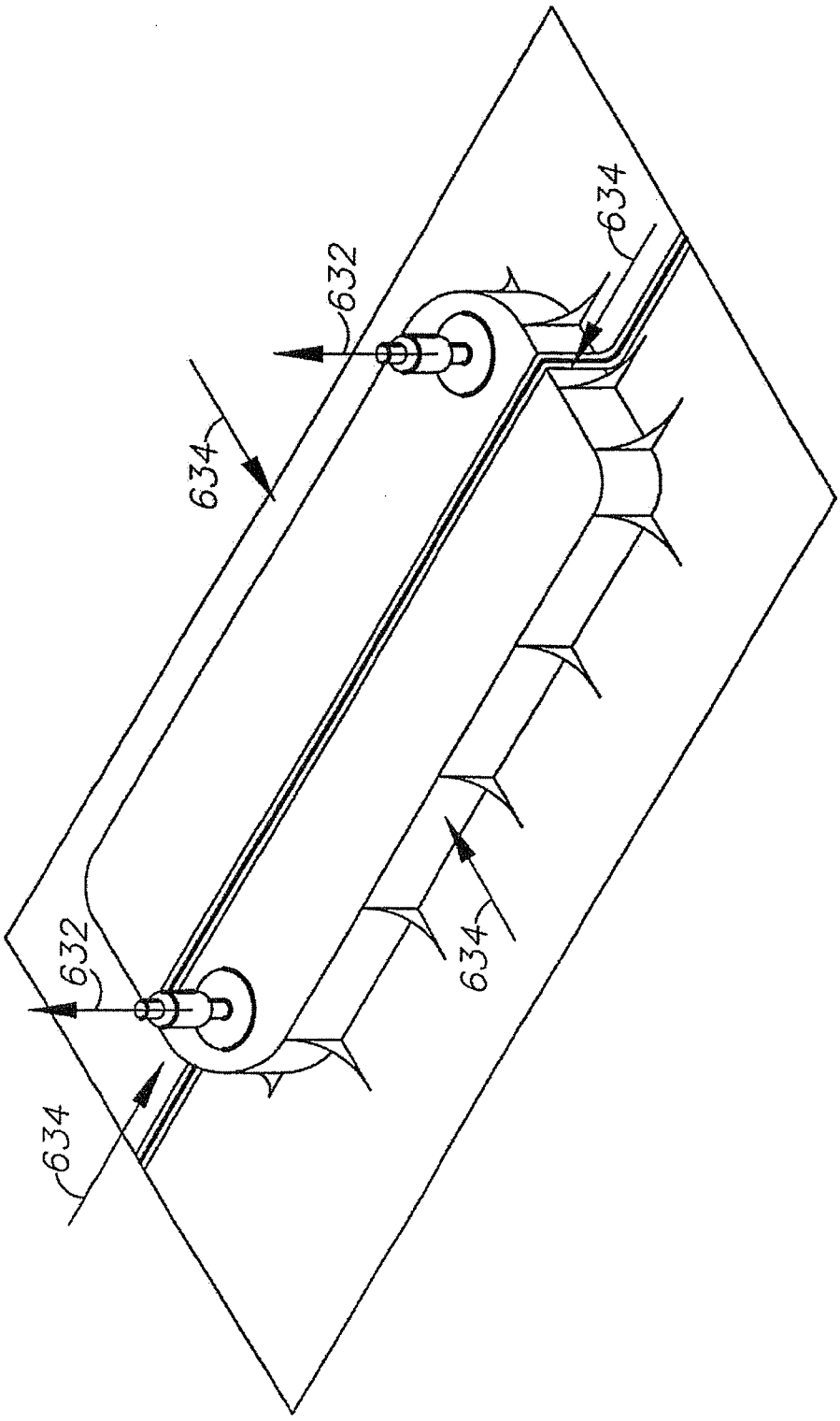


FIG. 34

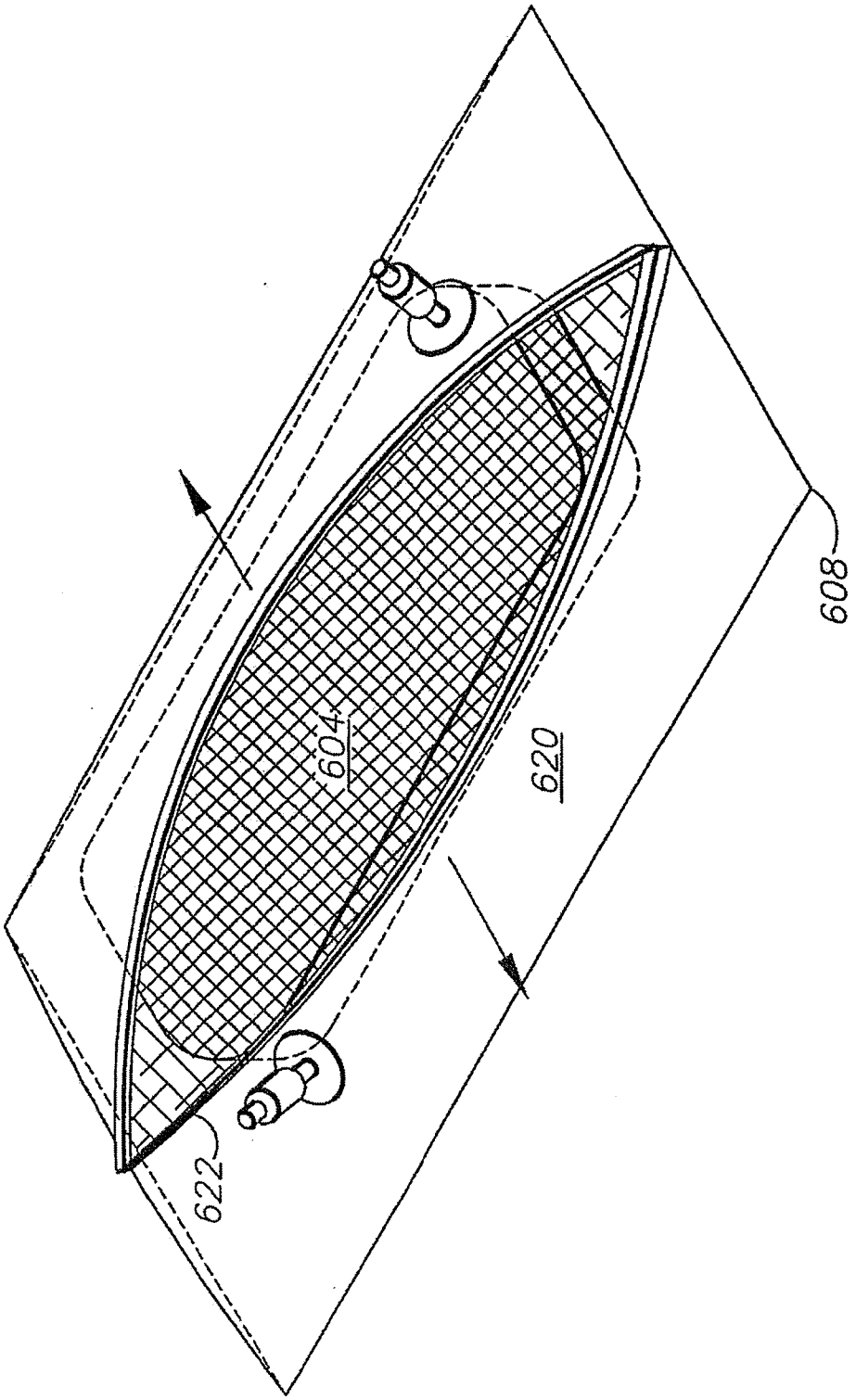


FIG. 35

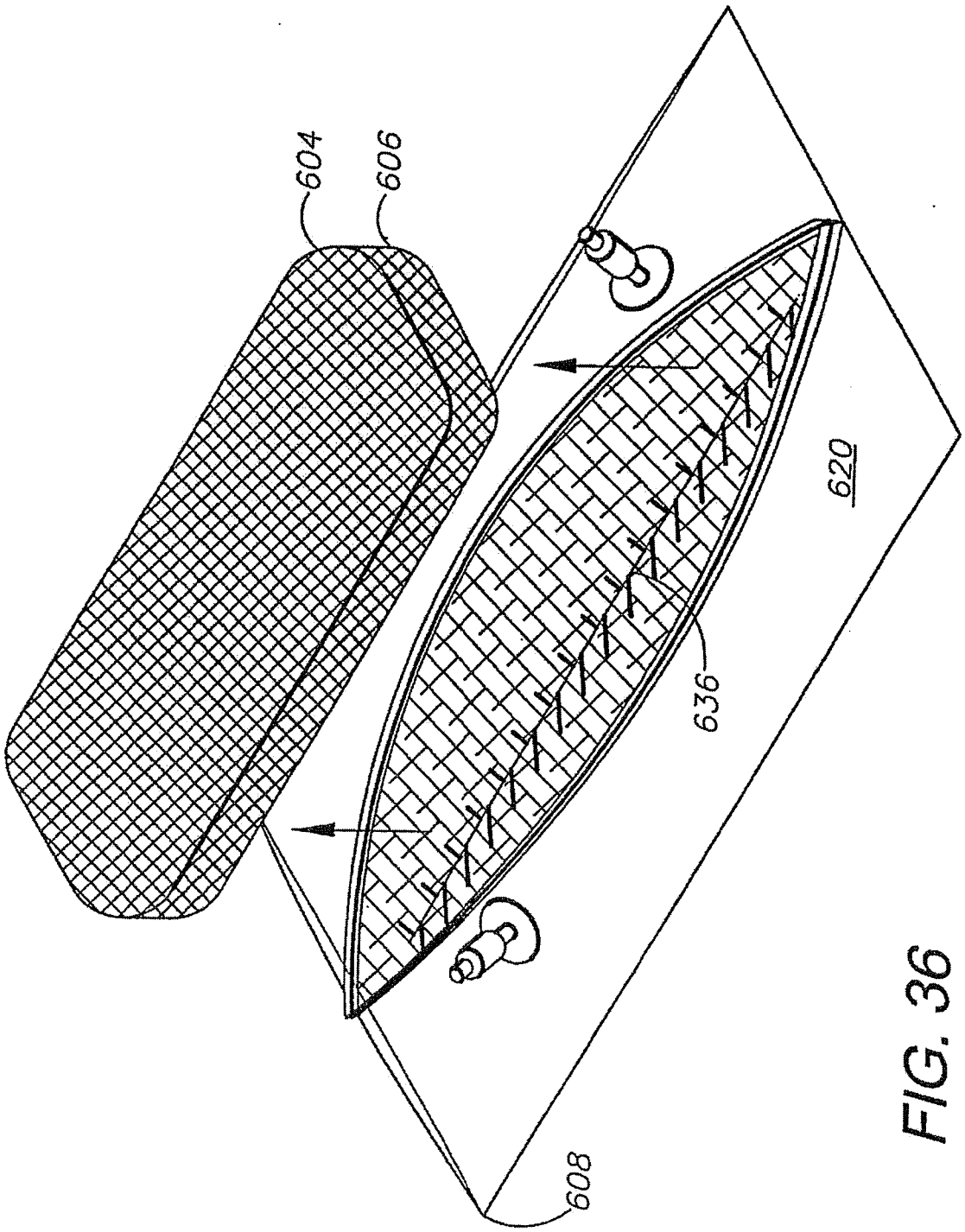


FIG. 36

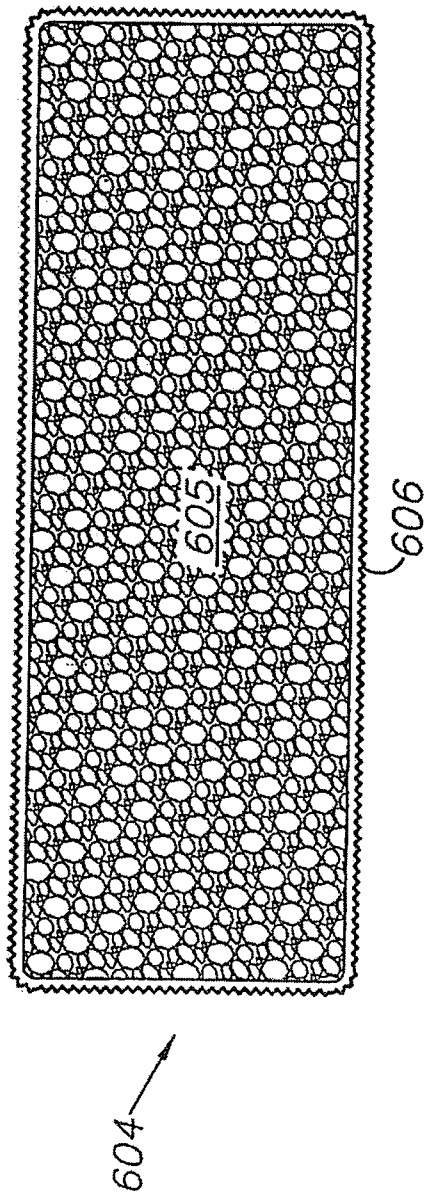


FIG. 37

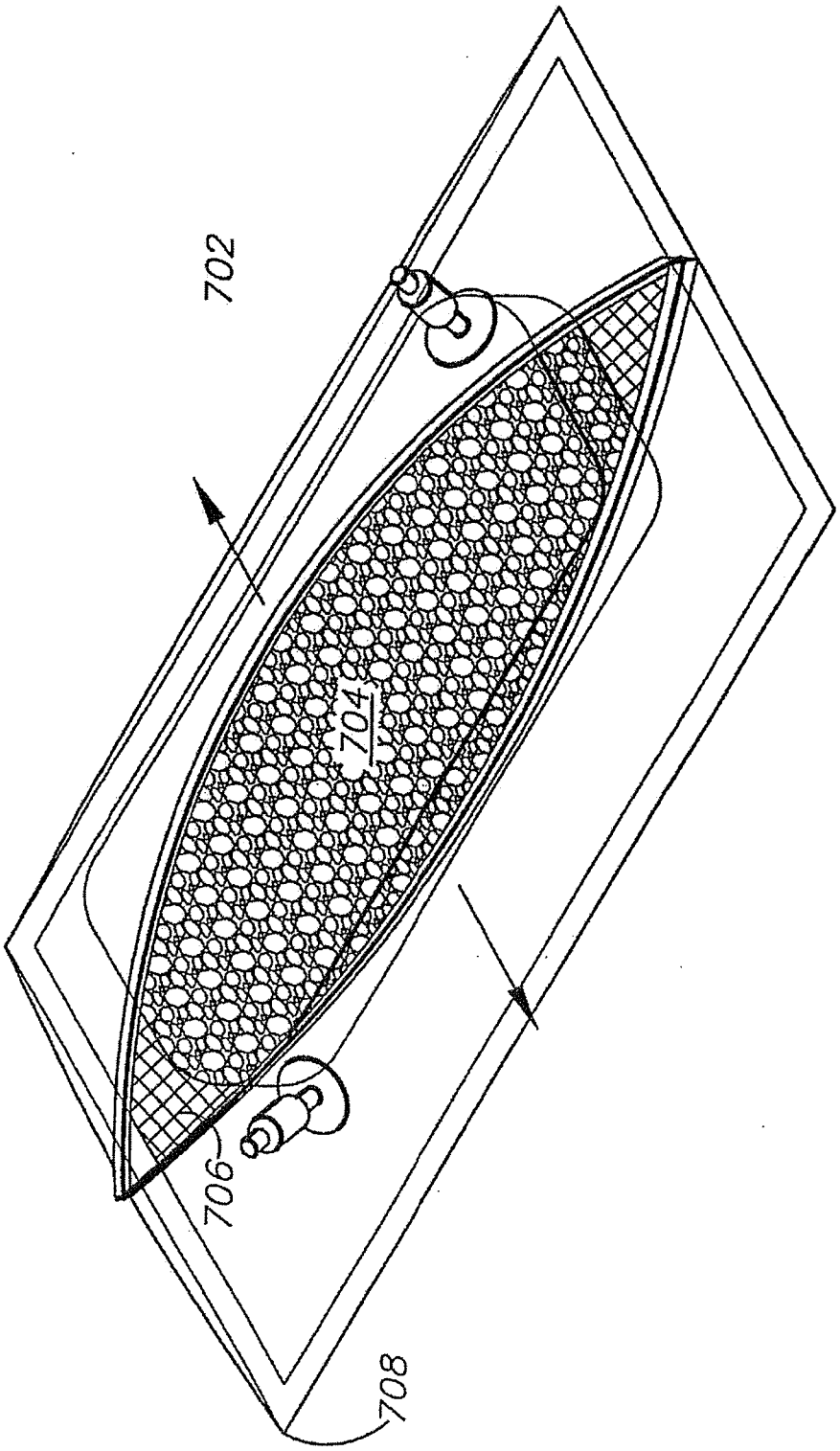


FIG. 38

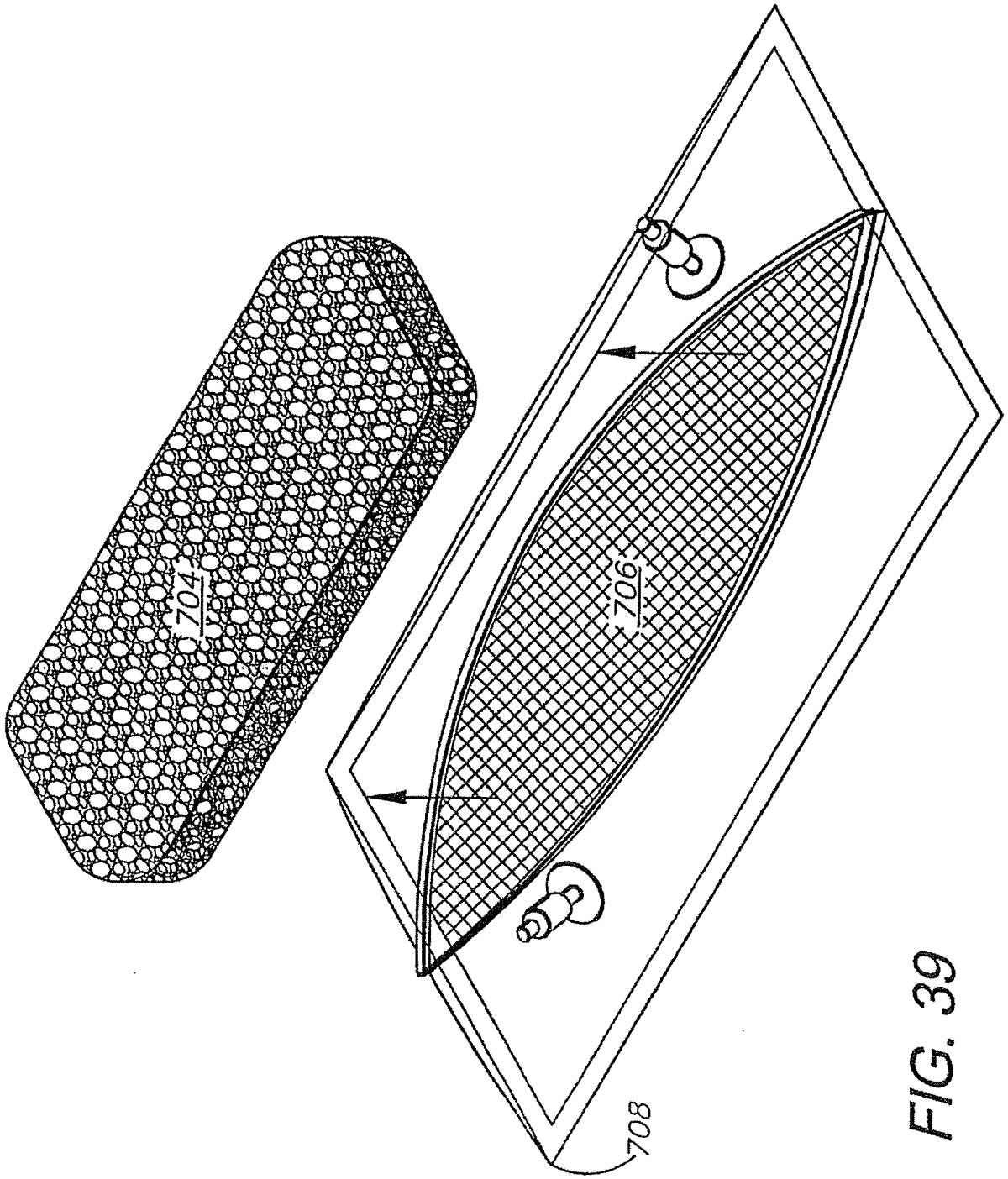


FIG. 39

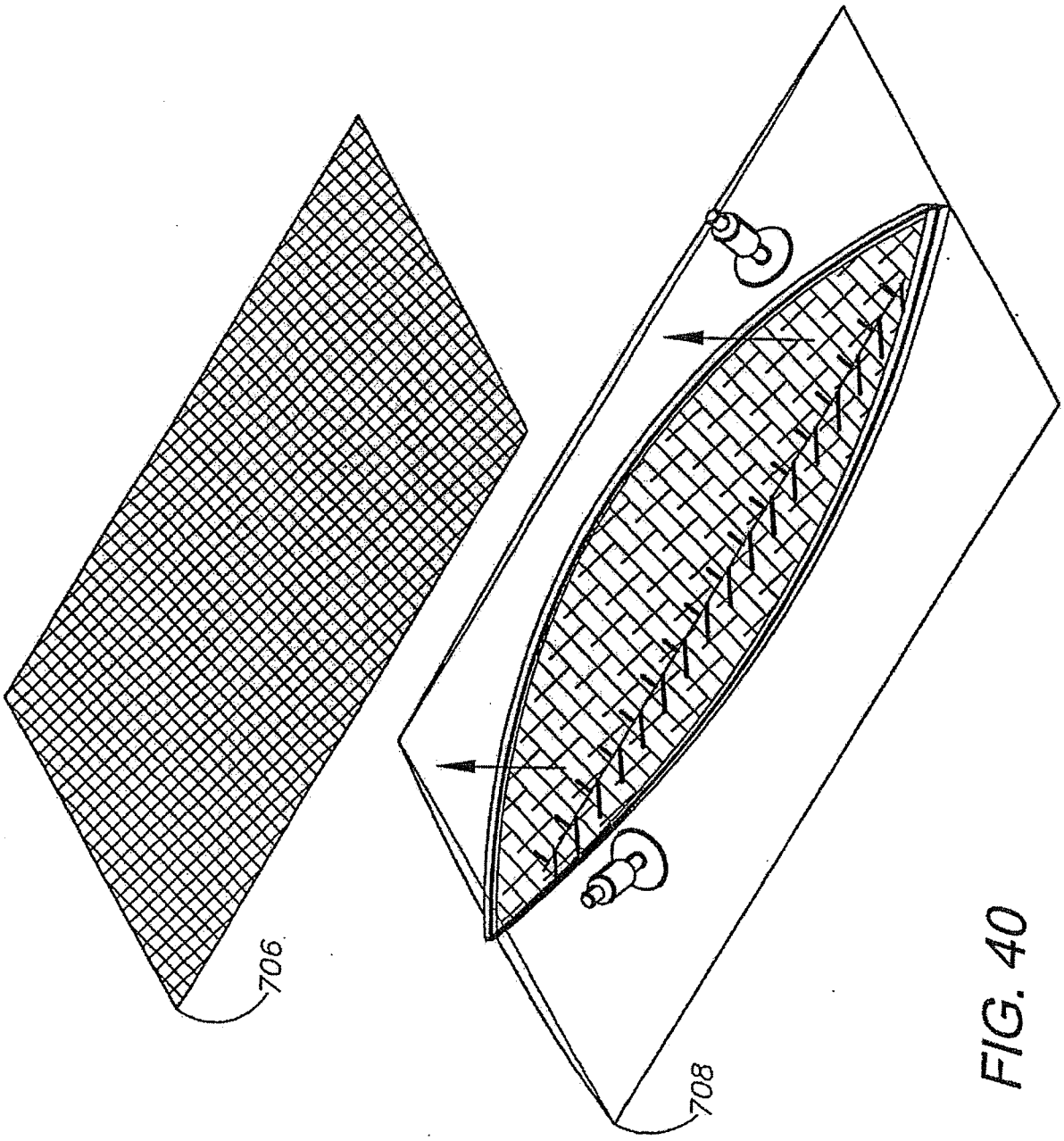


FIG. 40

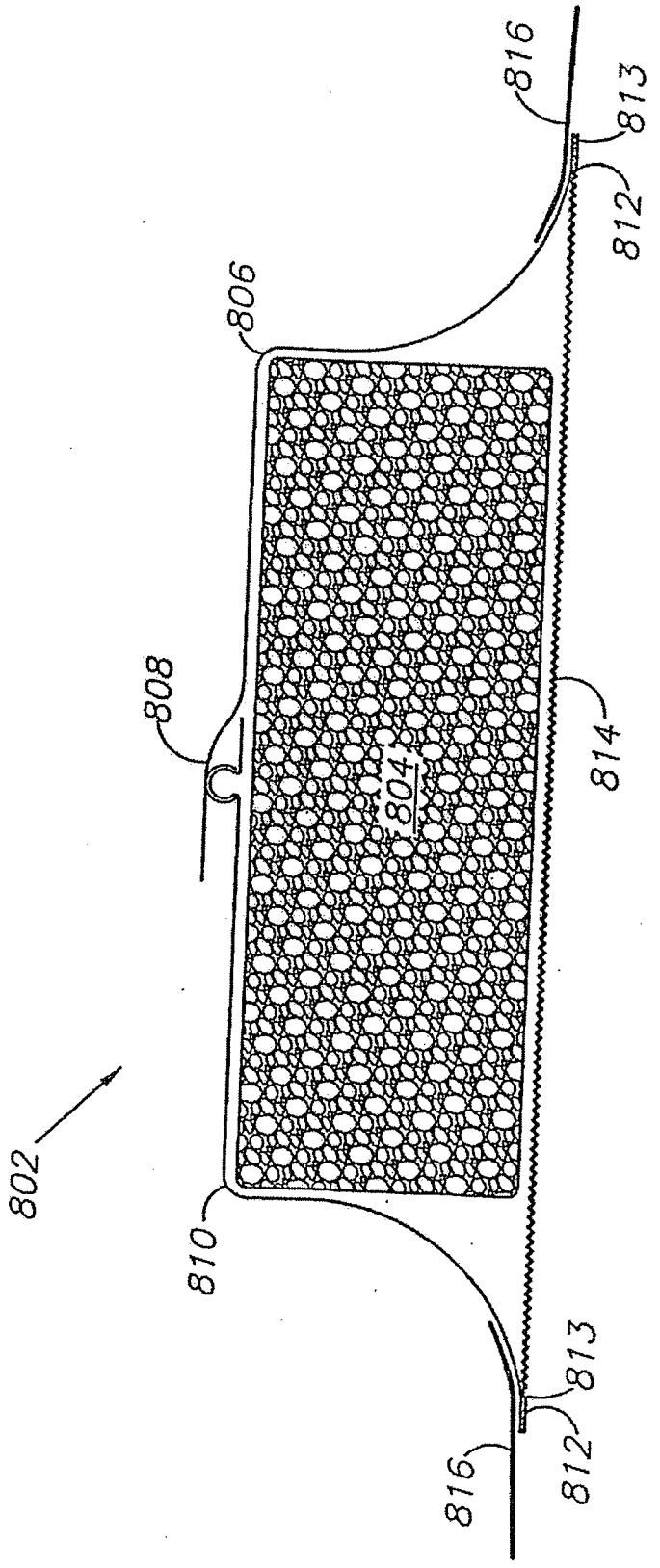


FIG. 41

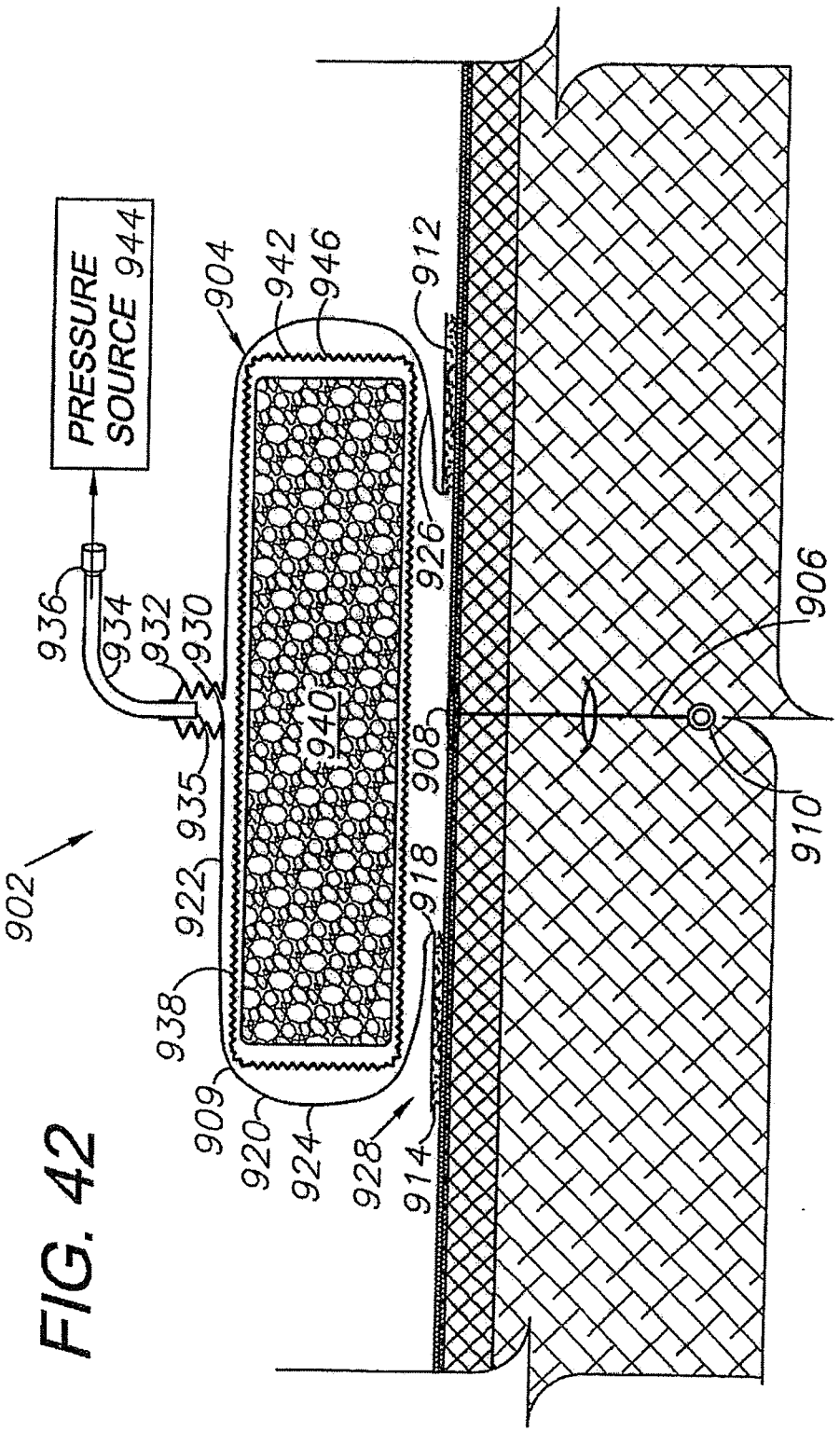

PRESSURE SOURCE 944
902
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FIG. 42

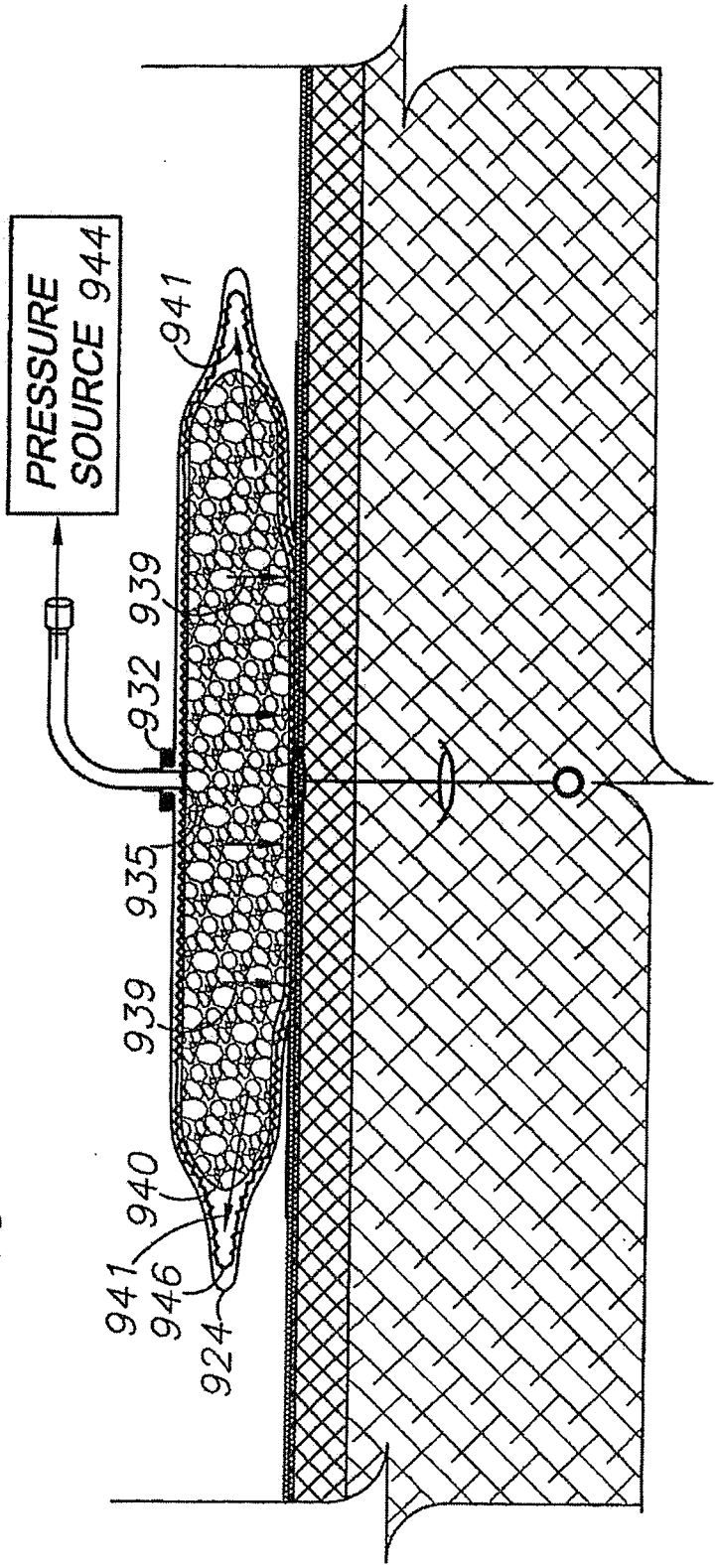


FIG. 43

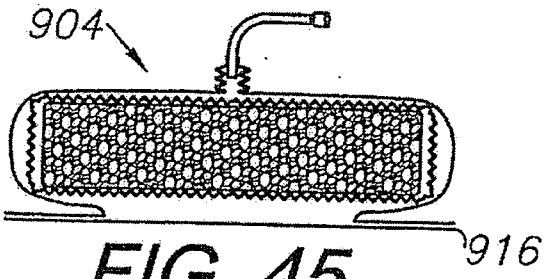


FIG. 45

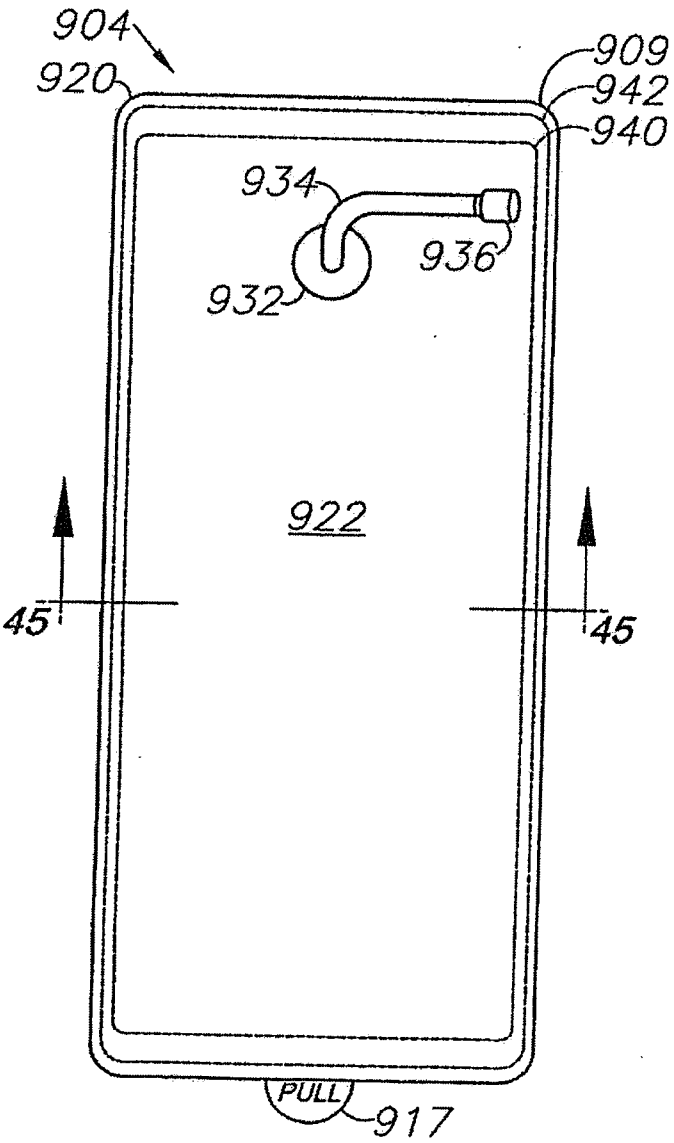


FIG. 44

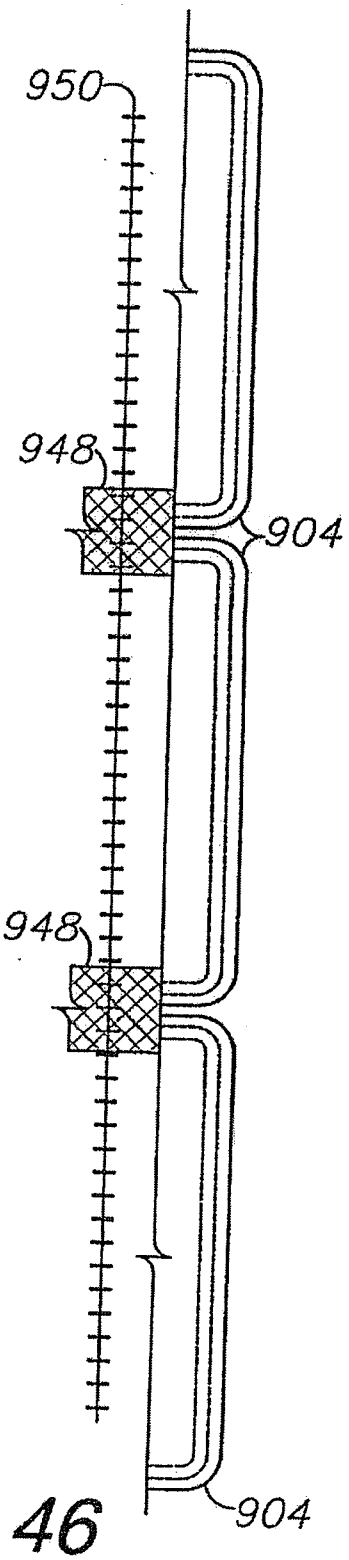


FIG. 46

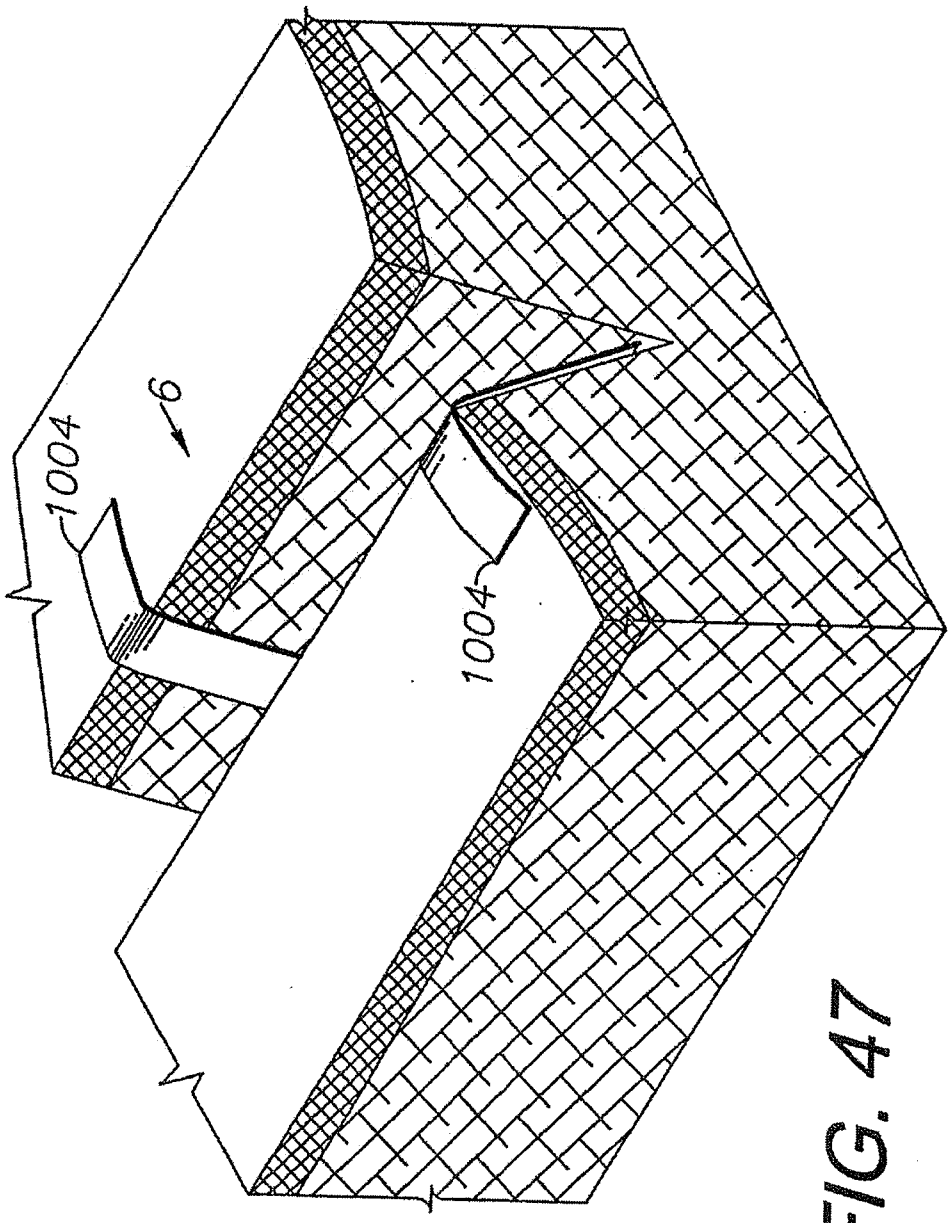


FIG. 47

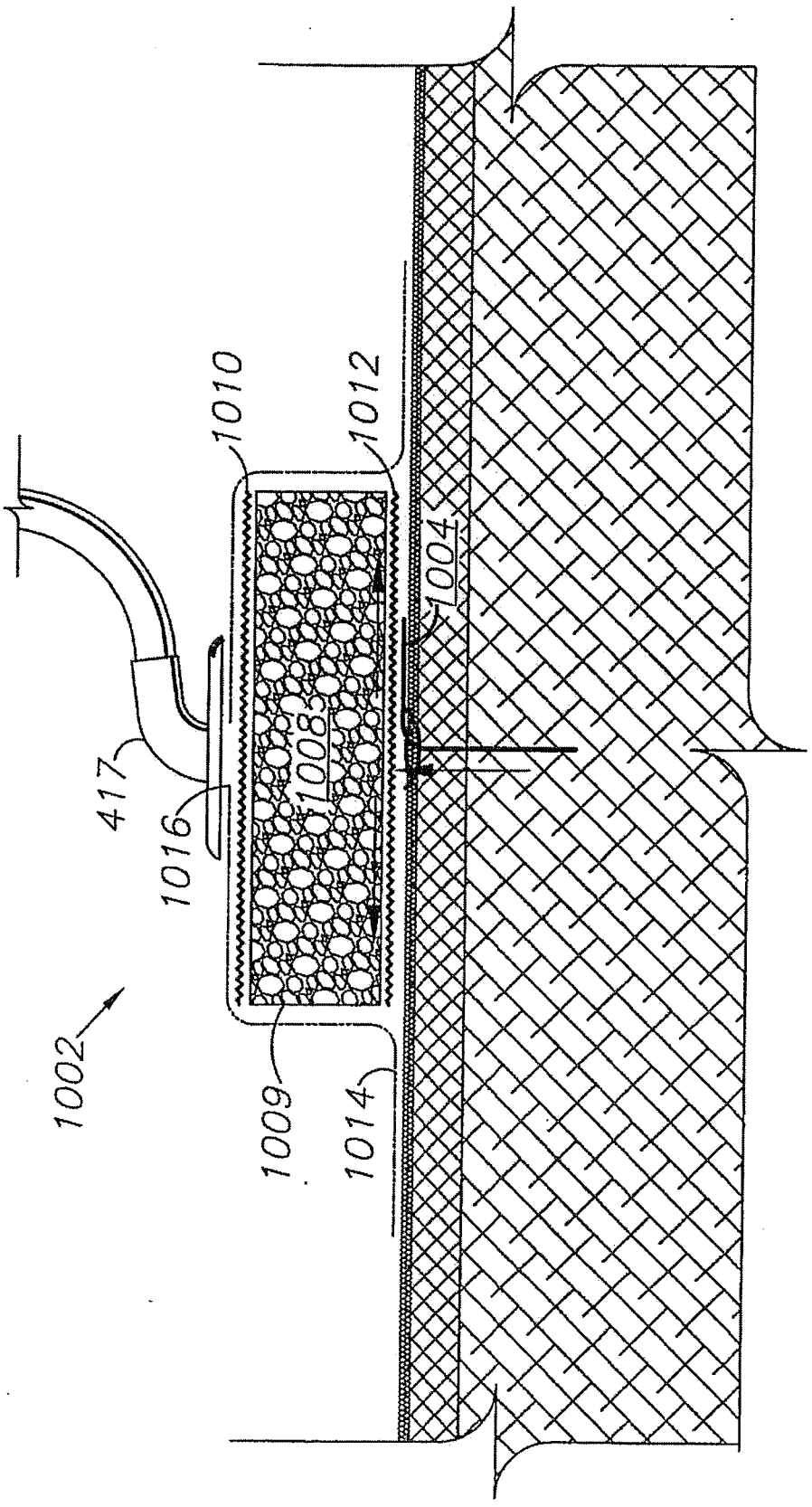


FIG. 48

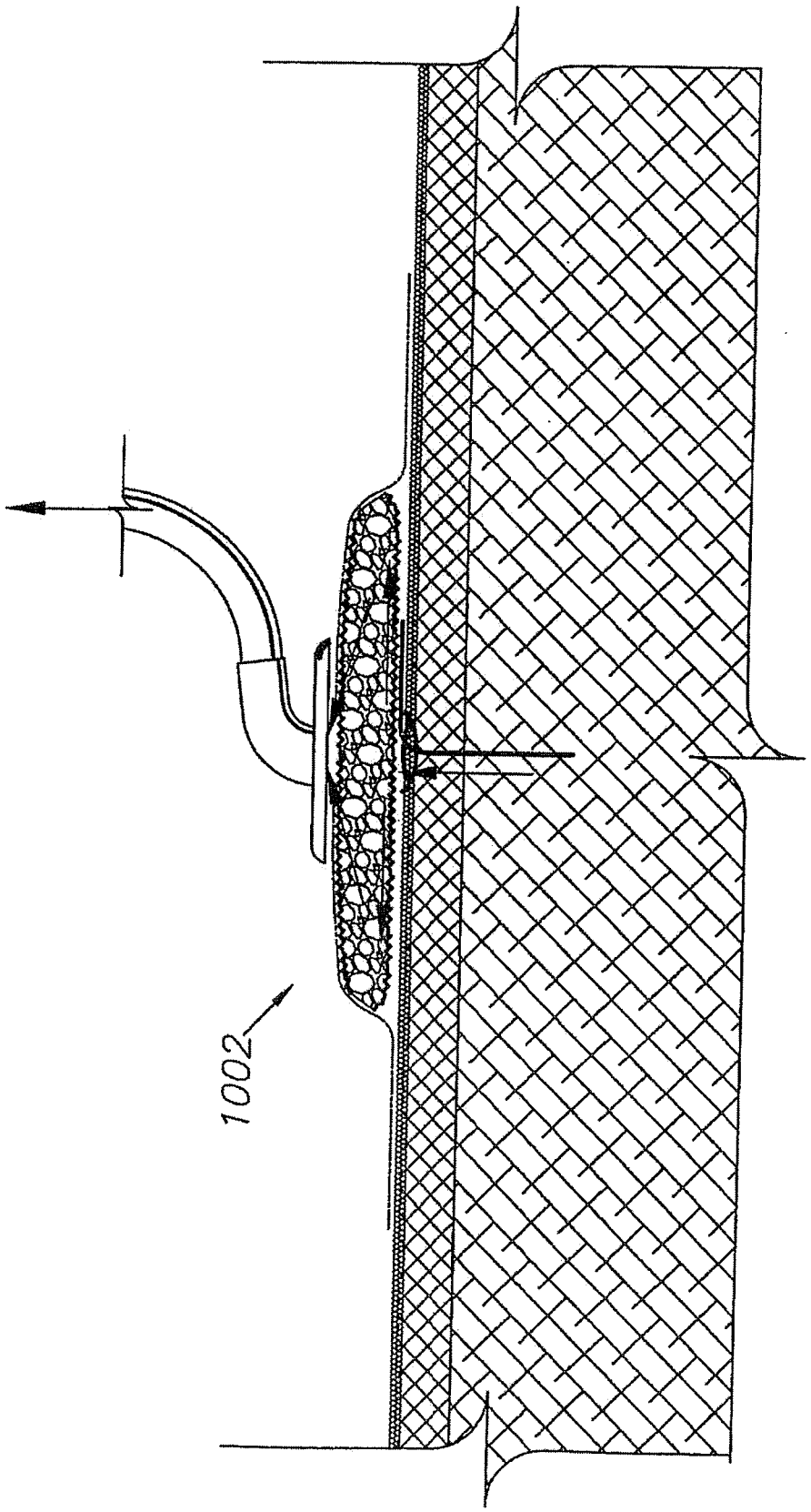


FIG. 49

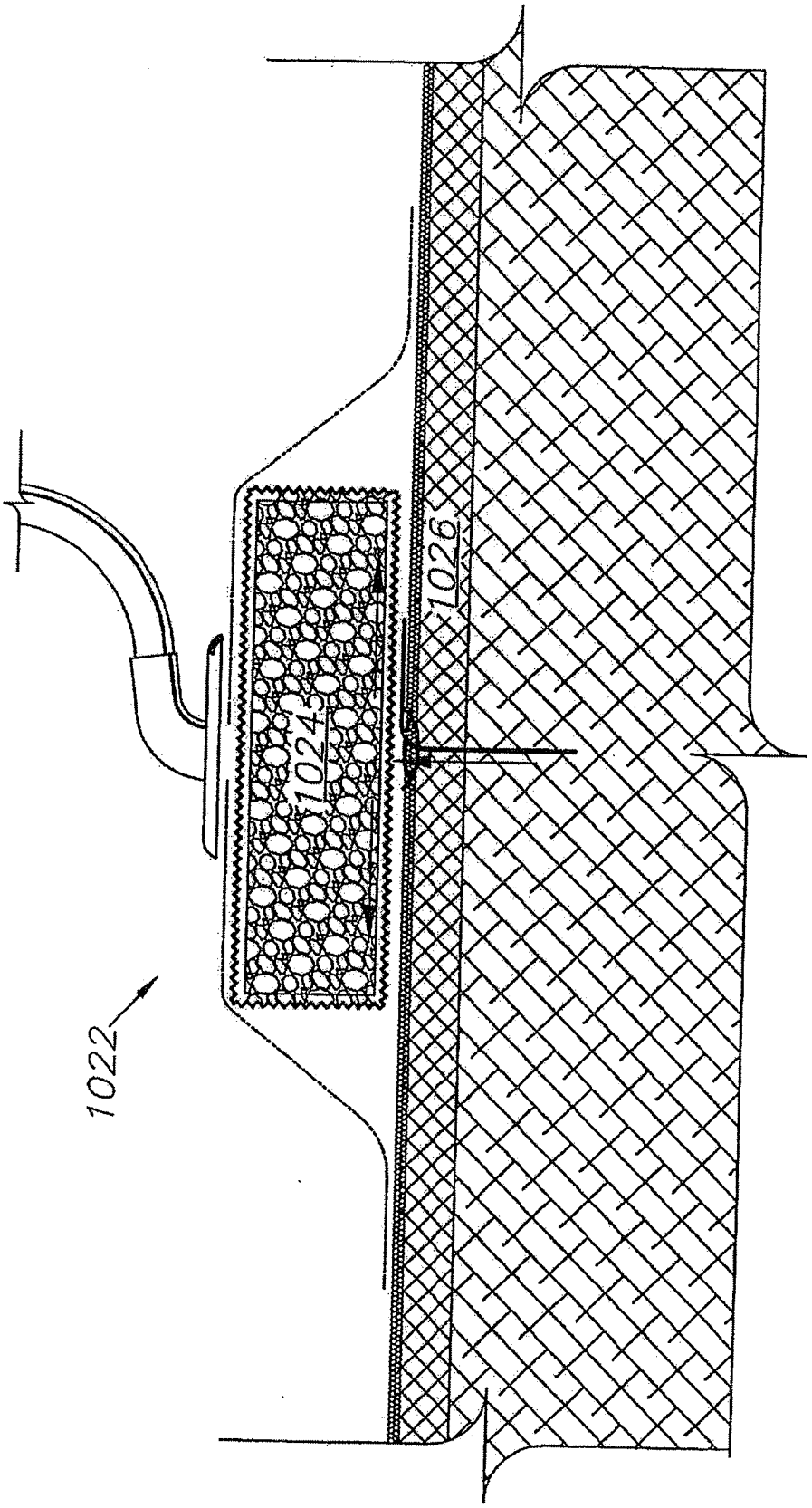


FIG. 50

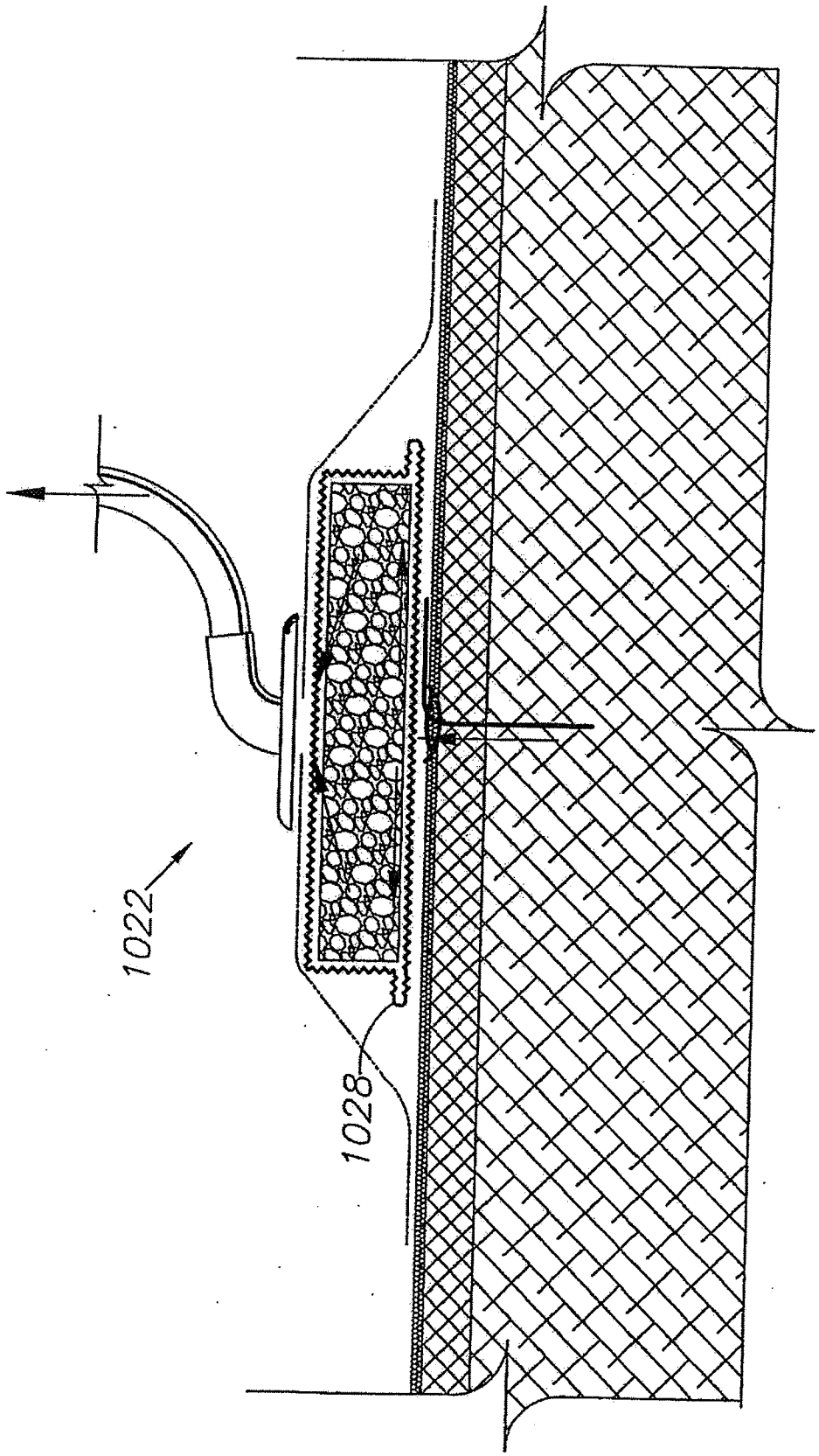


FIG. 51

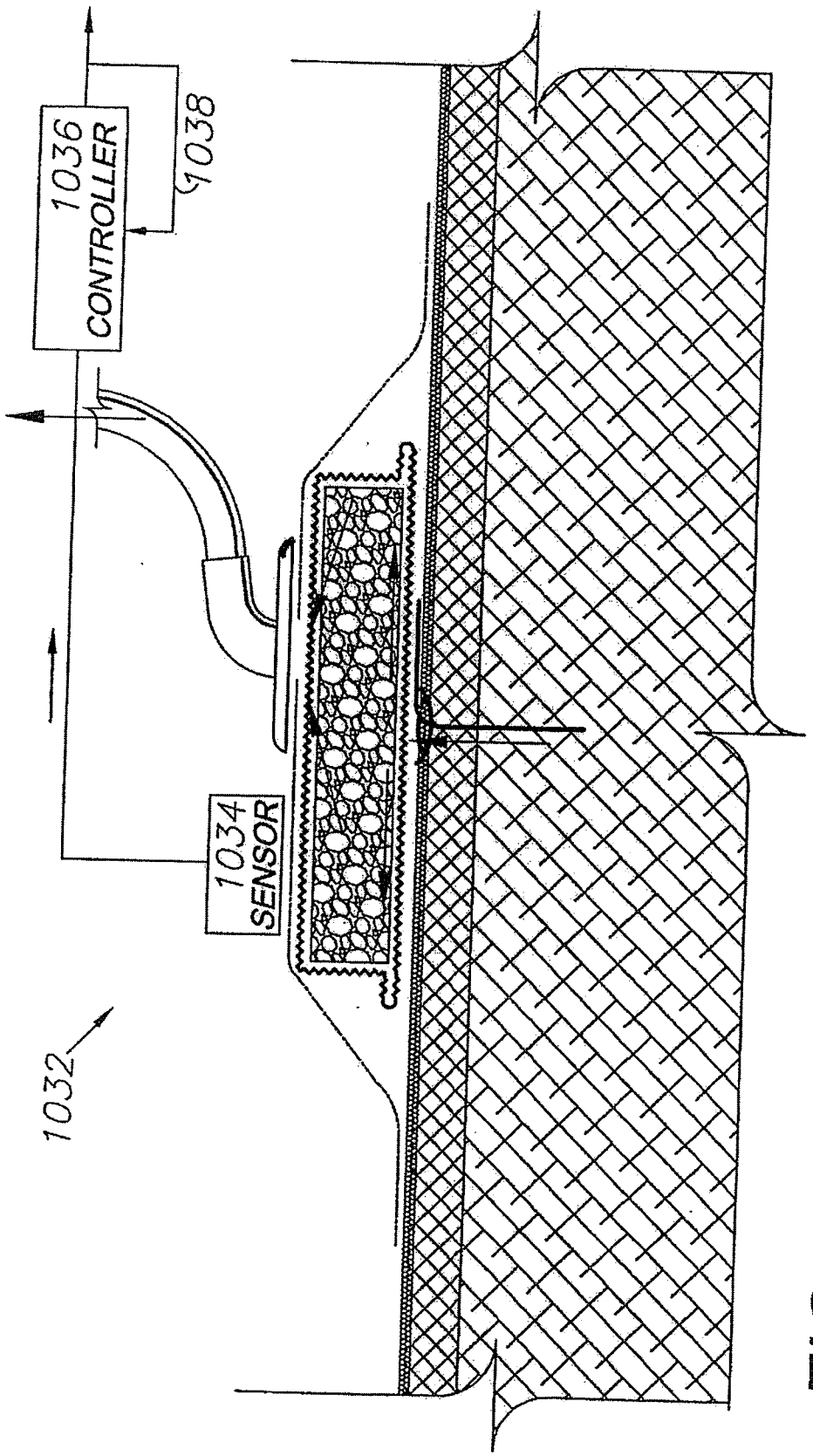


FIG. 52

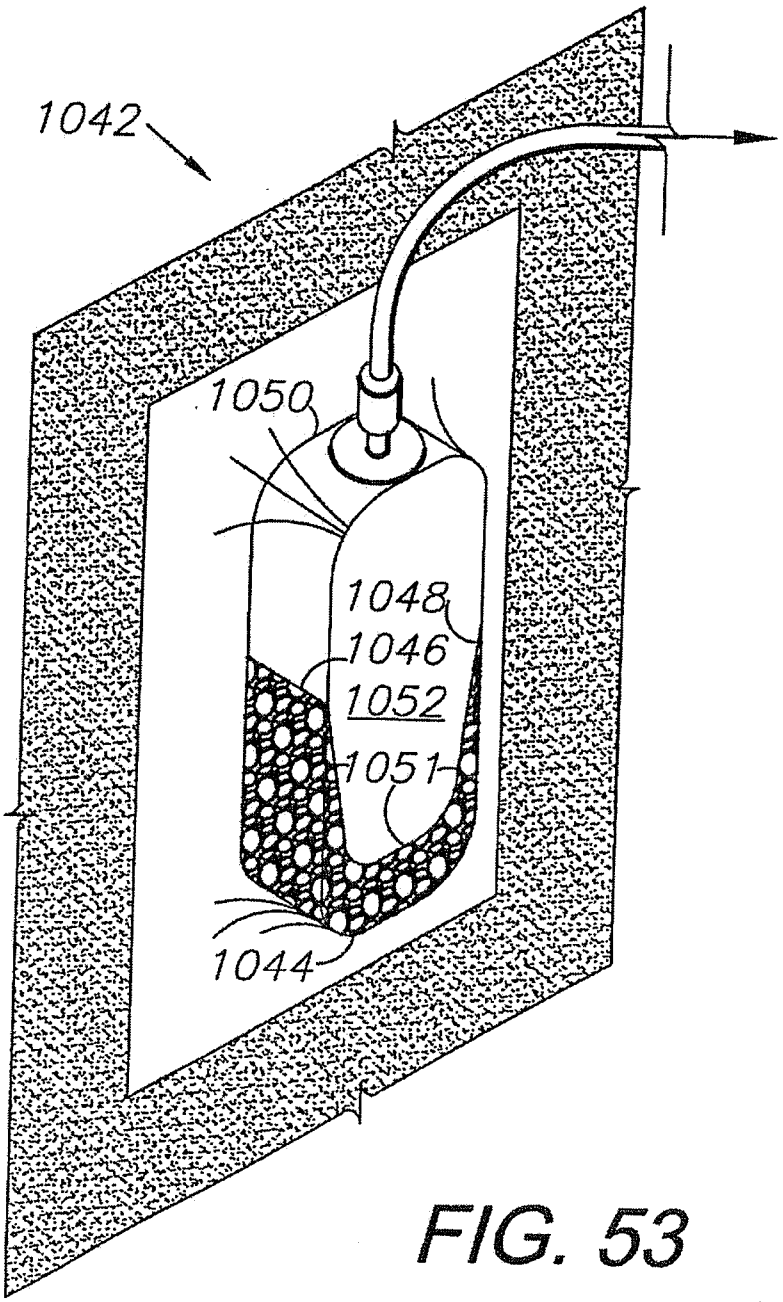


FIG. 53

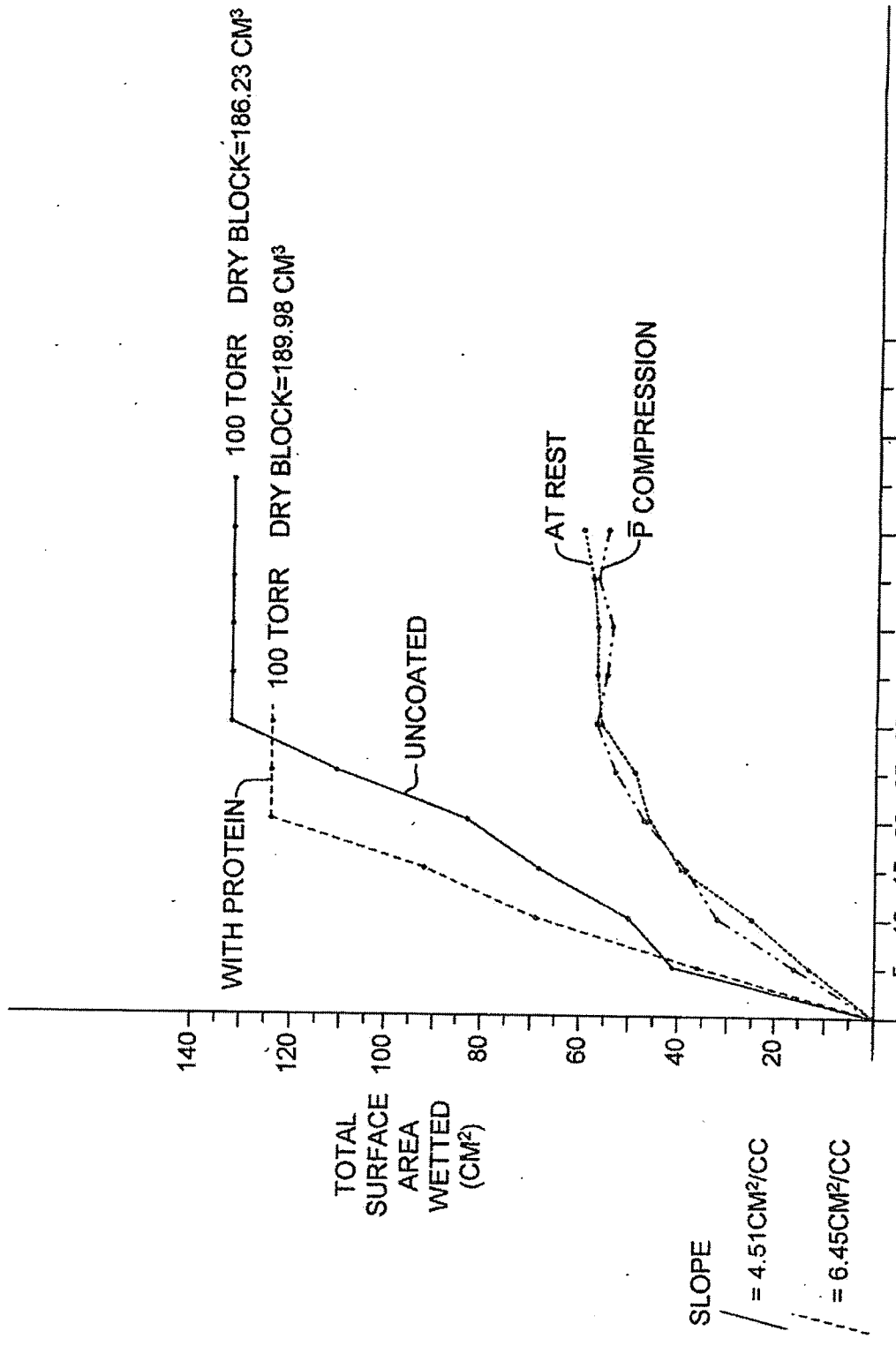

WITH PROTEIN
100 TORR DRY BLOCK=186.23 CM³
100 TORR DRY BLOCK=189.98 CM³
UNCOATED
AT REST
P COMPRESSION
TOTAL SURFACE AREA WETTED (CM²)
TOTAL LIQUID VOLUME ADDED (CC)
SLOPE
= 4.51CM²/CC
= 6.45CM²/CC

FIG. 54

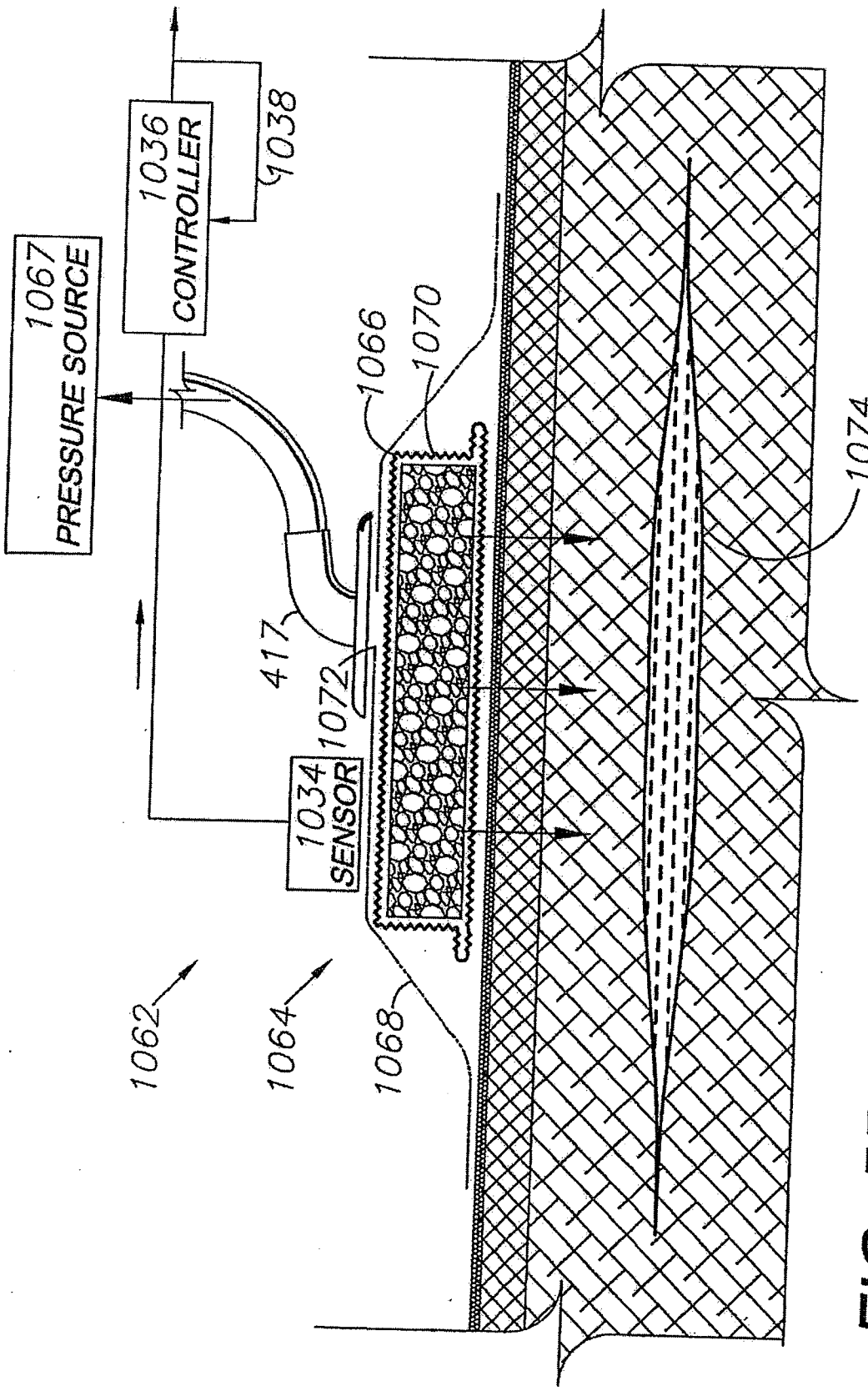

1067
PRESSURE SOURCE
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CONTROLLER
1038
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SENSOR
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FIG. 55