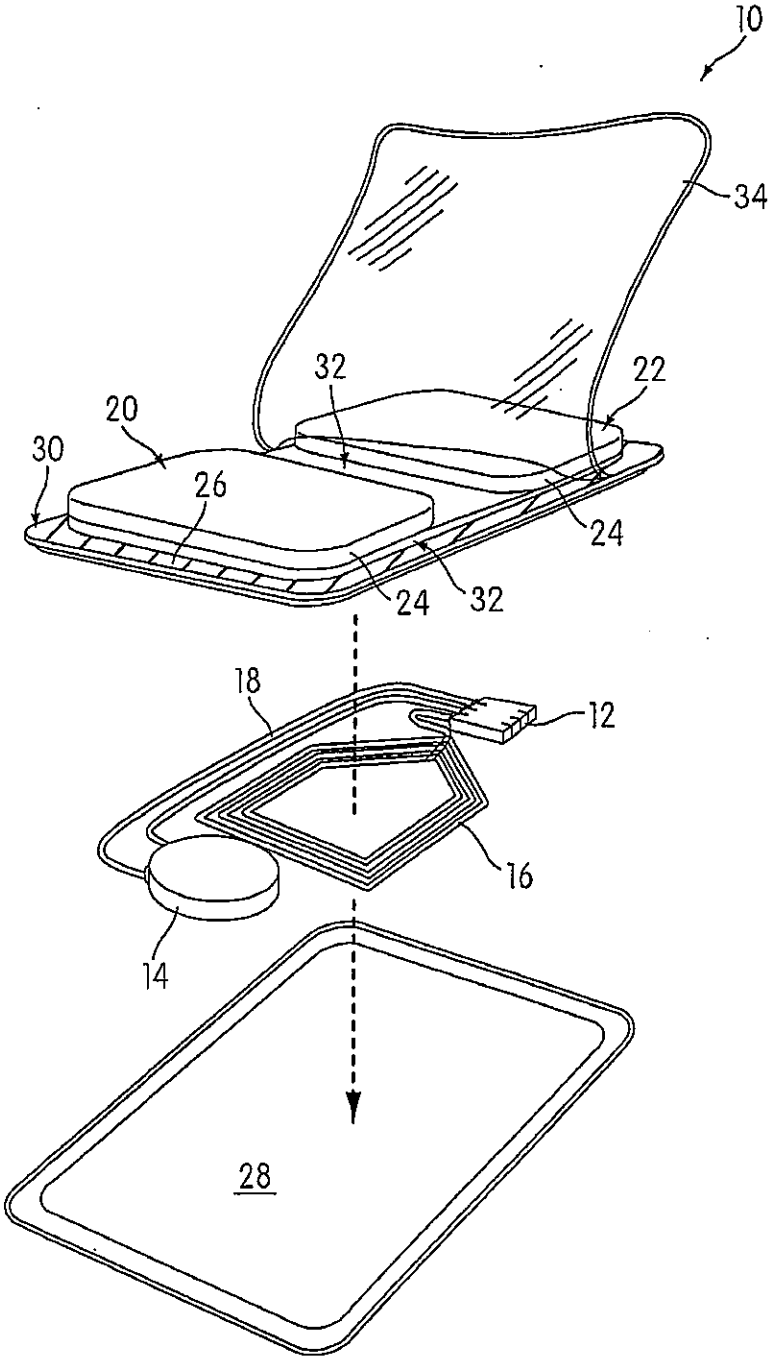


FIG. 1

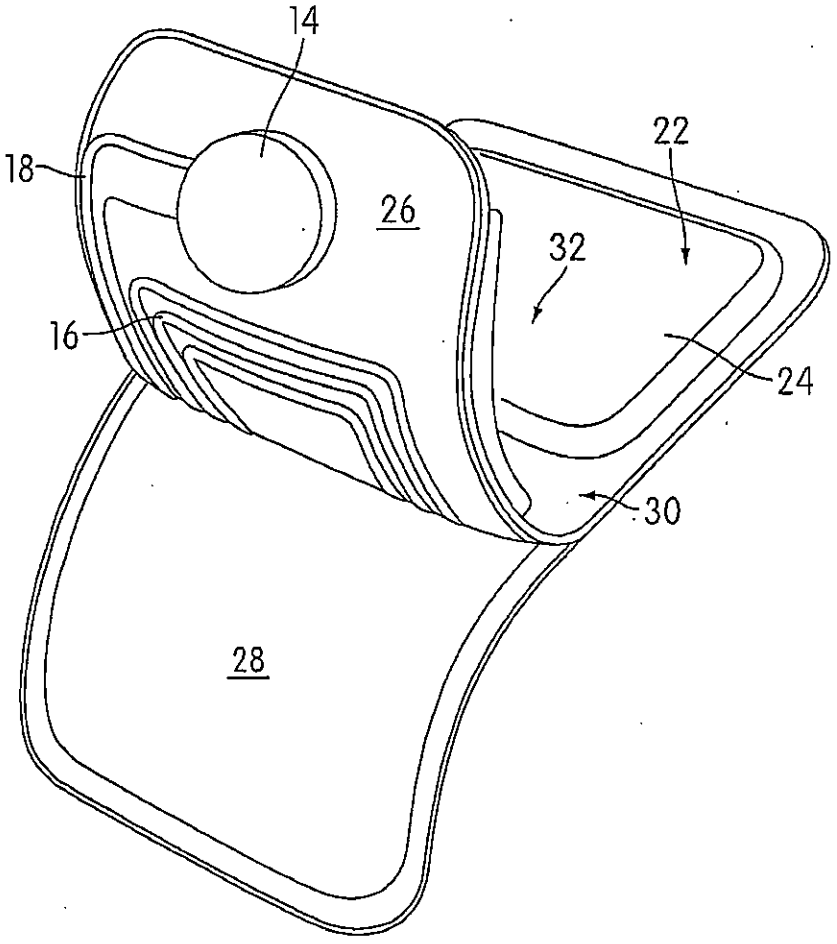


FIG. 2

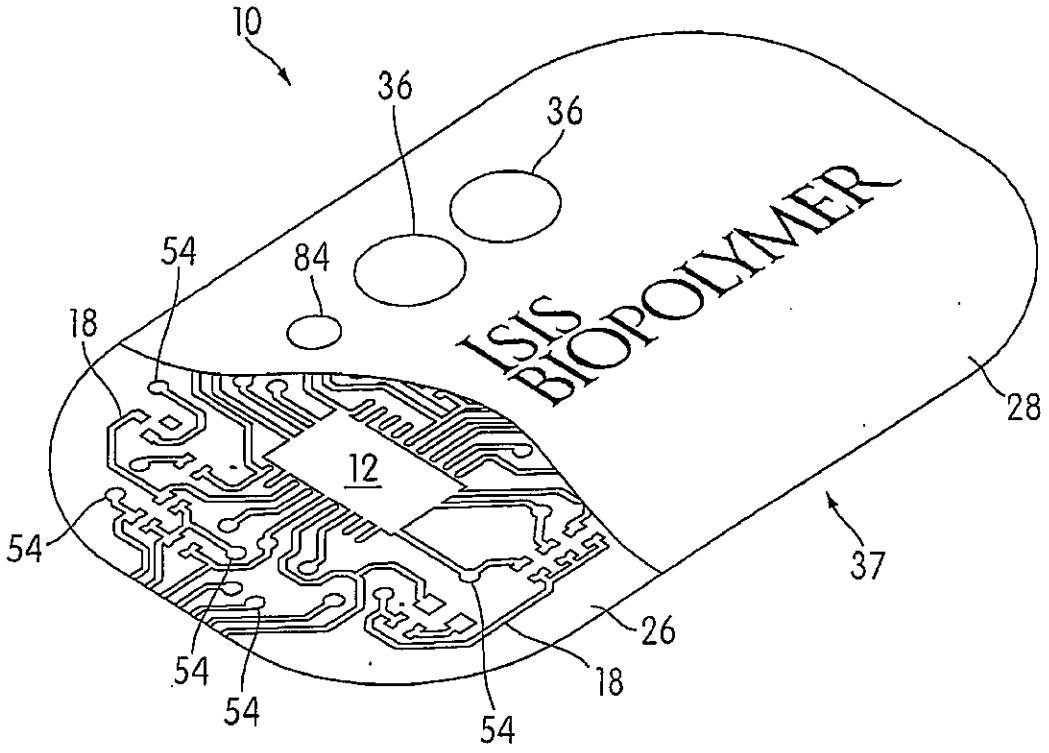


FIG. 3

CIRCUITRY, PRIMARY COMPONENT SIDE

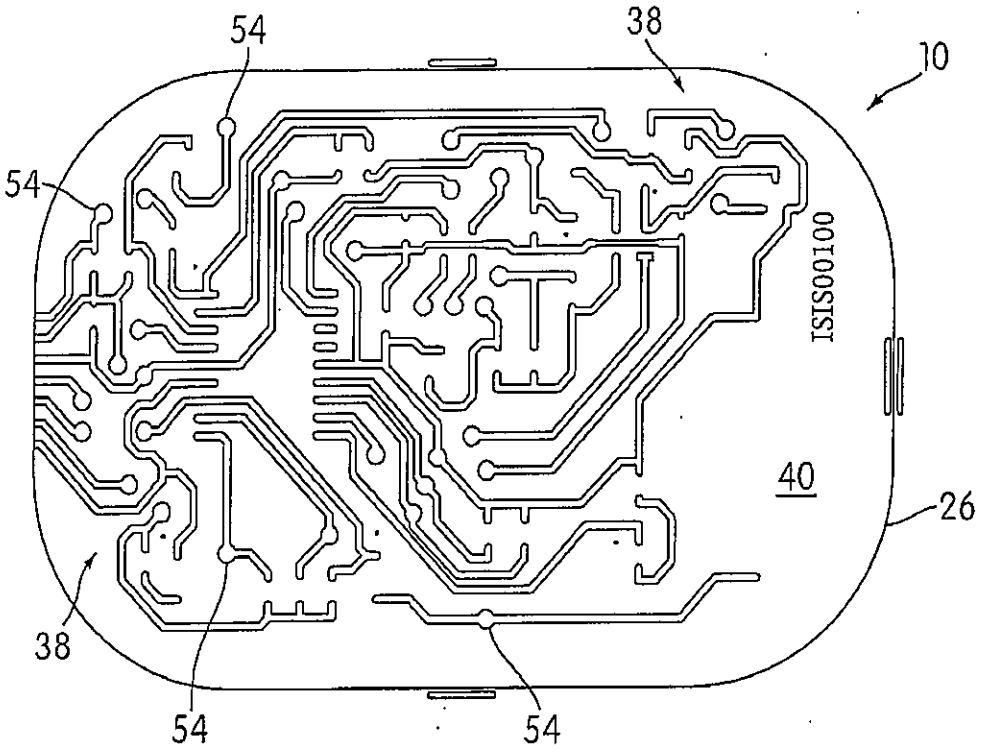


FIG. 4

CIRCUITRY, FOR ANTENNA REFERENCE

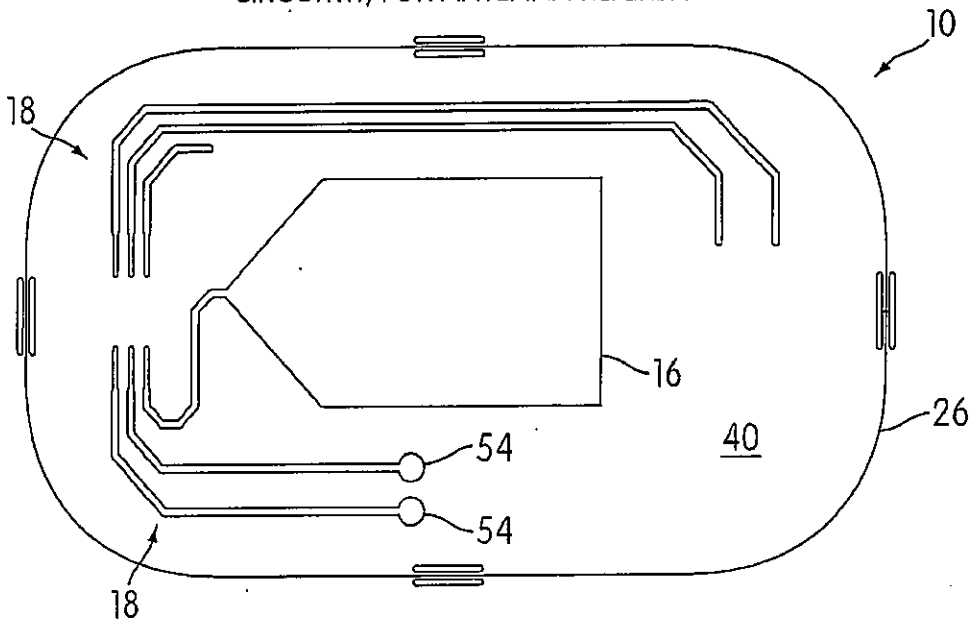


FIG. 4A

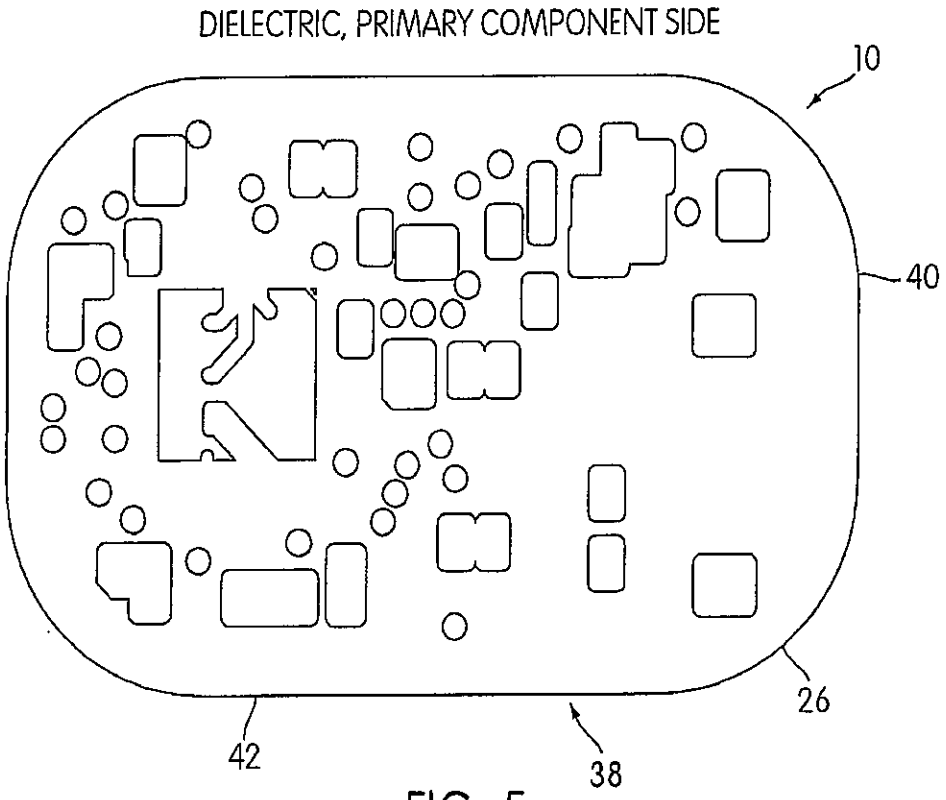

DIELECTRIC, PRIMARY COMPONENT SIDE
10
40
26
42
38

FIG. 5

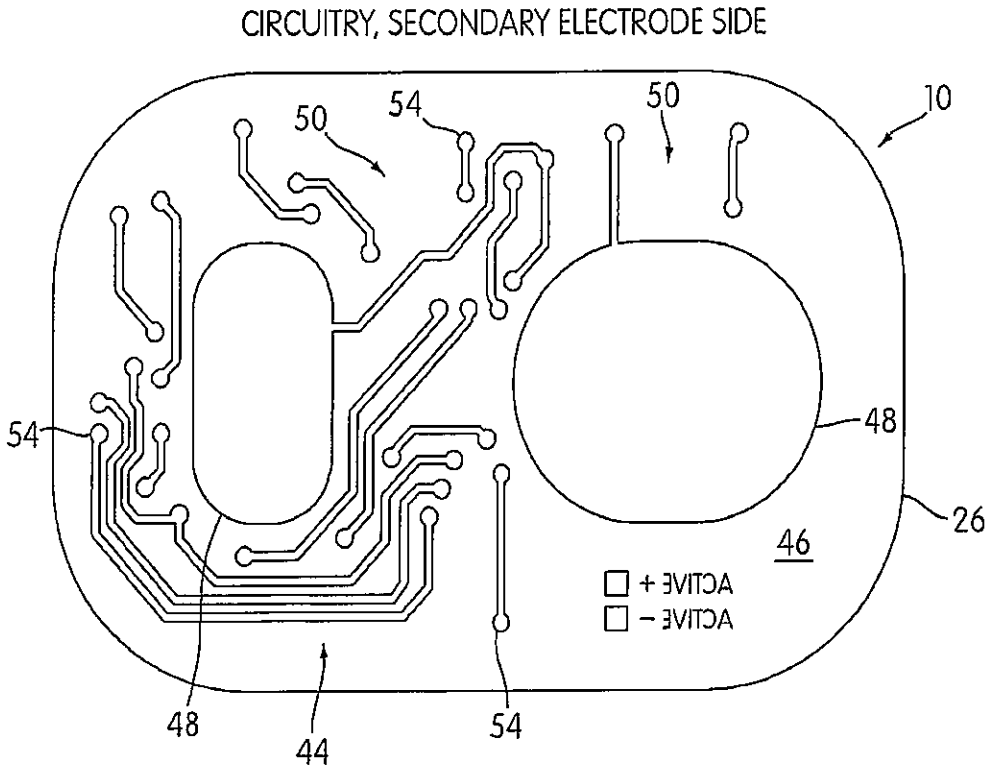

CIRCUITRY, SECONDARY ELECTRODE SIDE
50
54
50
10
54
48
26
46
+ ACTIVE
– ACTIVE
48
44
54

FIG. 6

ELECTRODES, SECONDARY SIDE

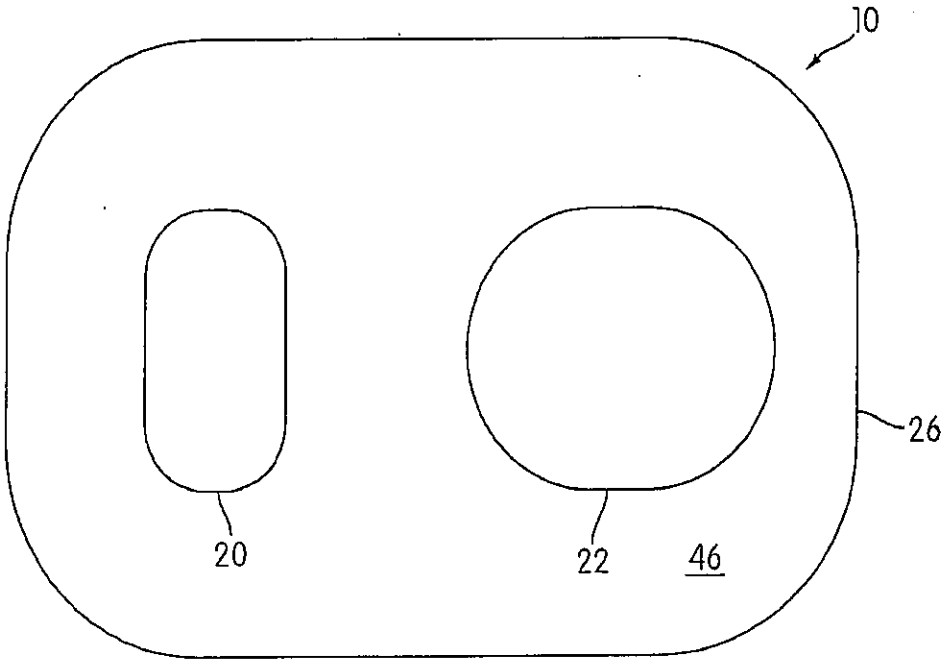


FIG. 7

DIELECTRIC, SECONDARY ELECTRODE SIDE

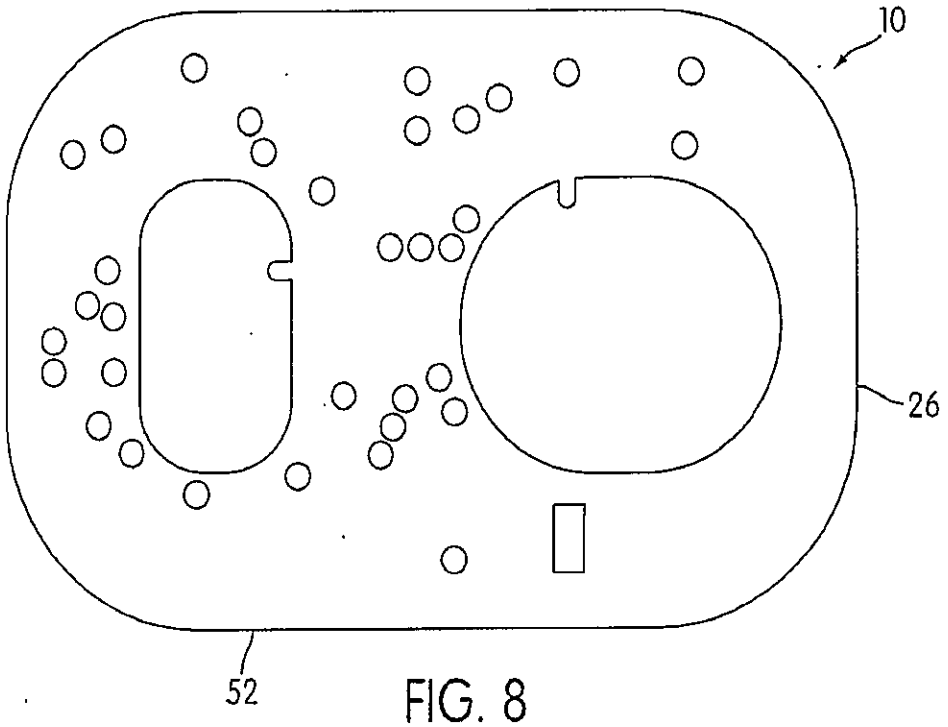


FIG. 8

THROUGH HOLE FILL

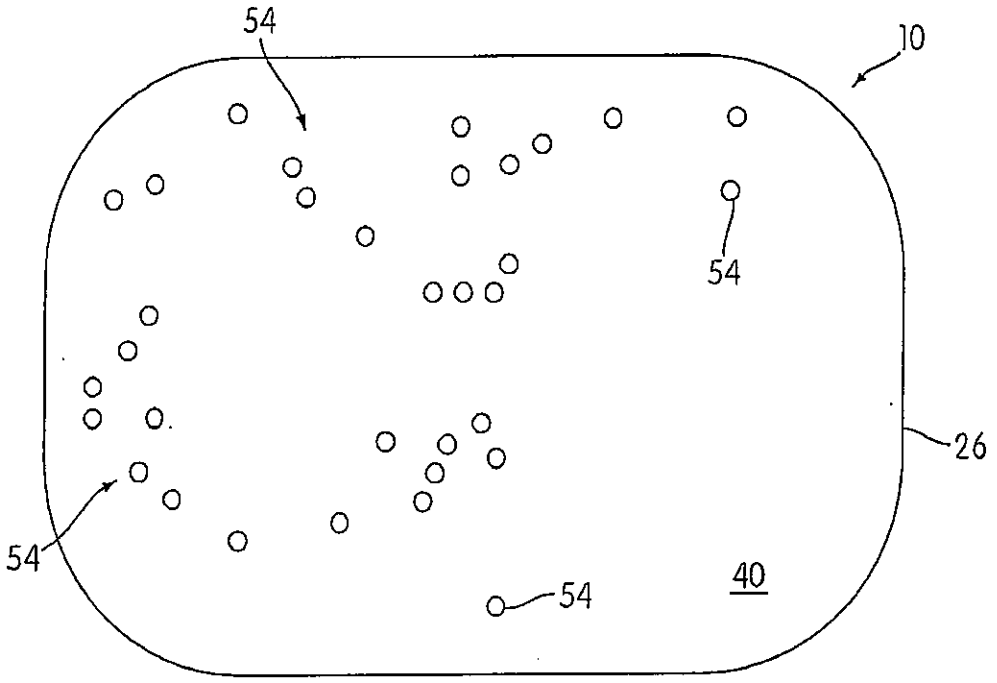


FIG. 9

MEDICAL FOAM, SECONDARY ELECTRODE SIDE

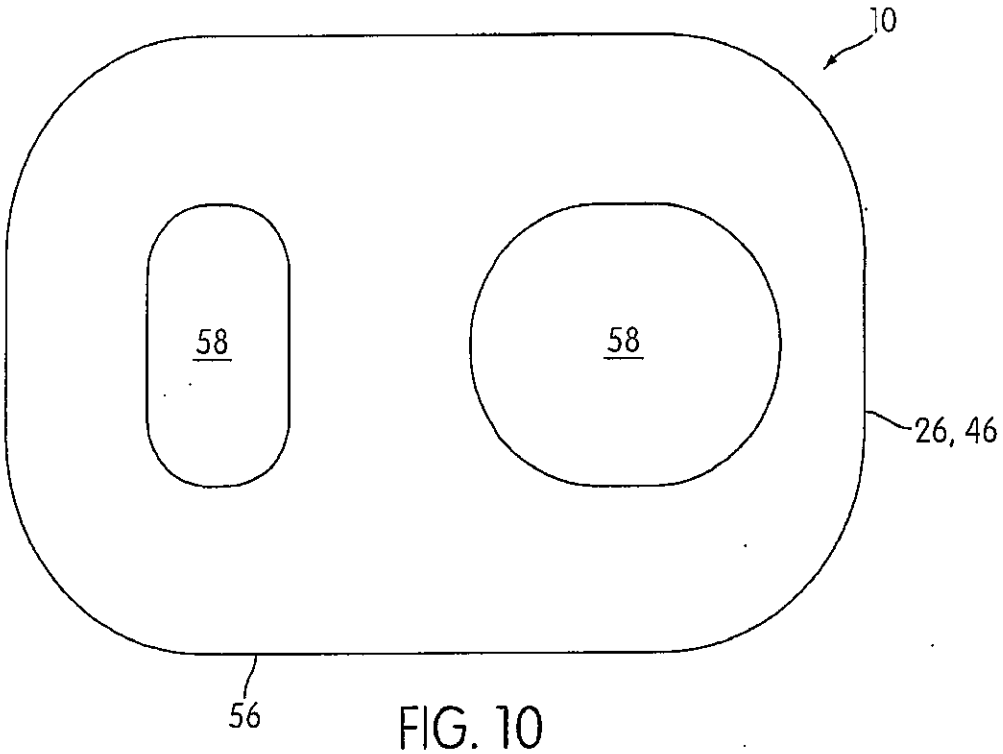


FIG. 10

DRUG RESERVOIRS, SECONDARY ELECTRODE SIDE

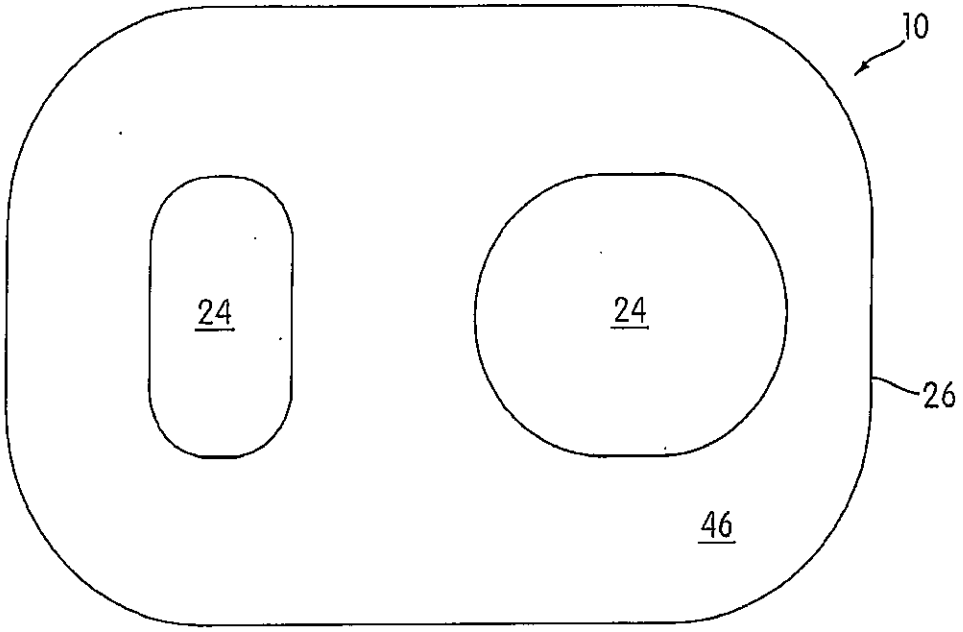


FIG. 11

CONDUCTIVE EPOXY, PRIMARY COMPONENT SIDE

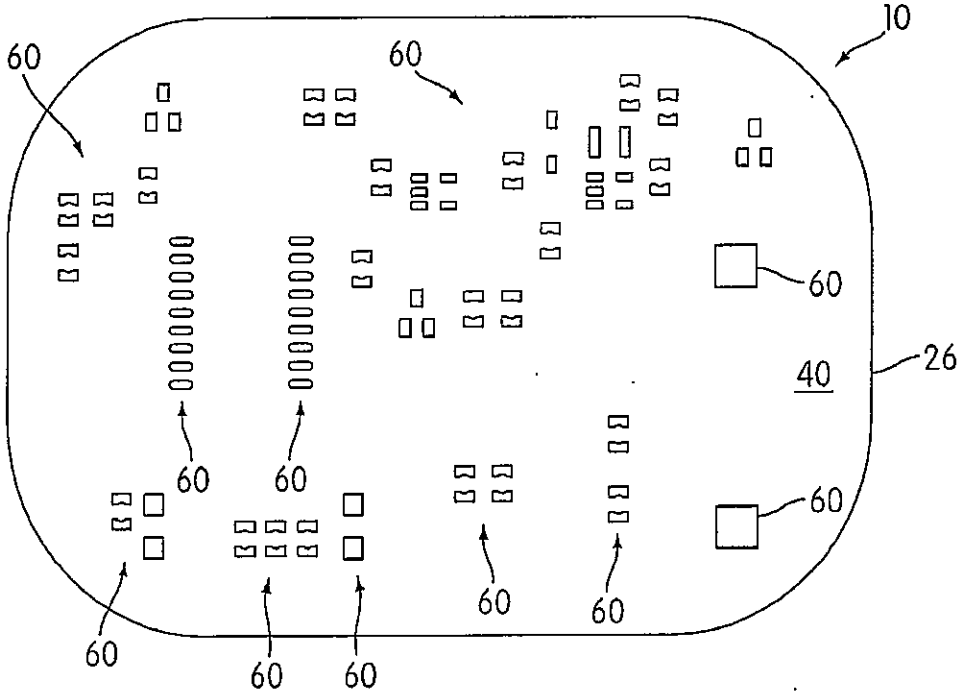


FIG. 12

COMPONENT PLACEMENT, PRIMARY SIDE

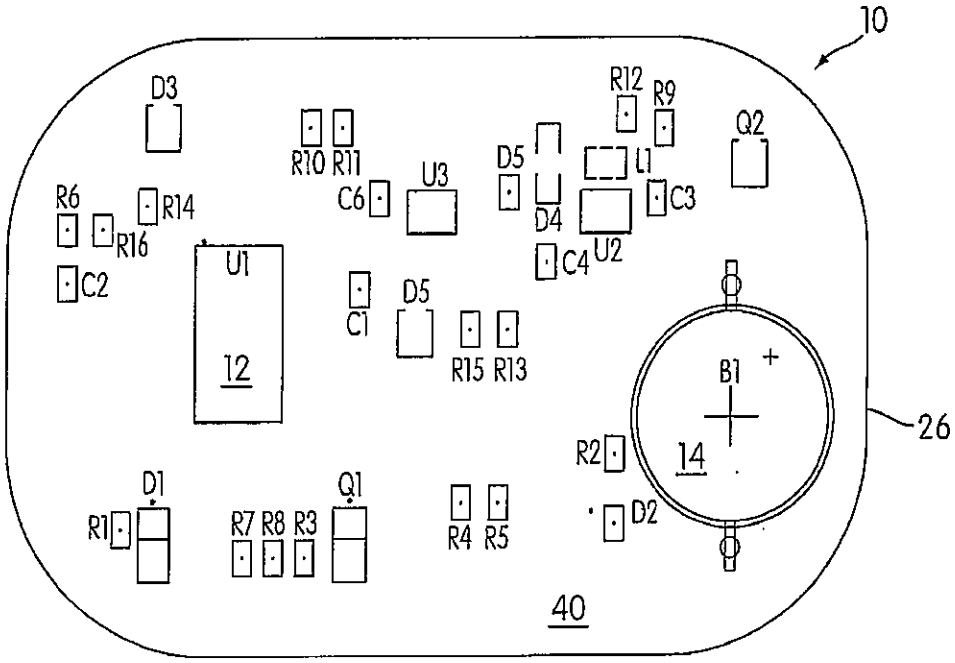


FIG. 13

ENCAPSULANT, PRIMARY COMPONENT SIDE

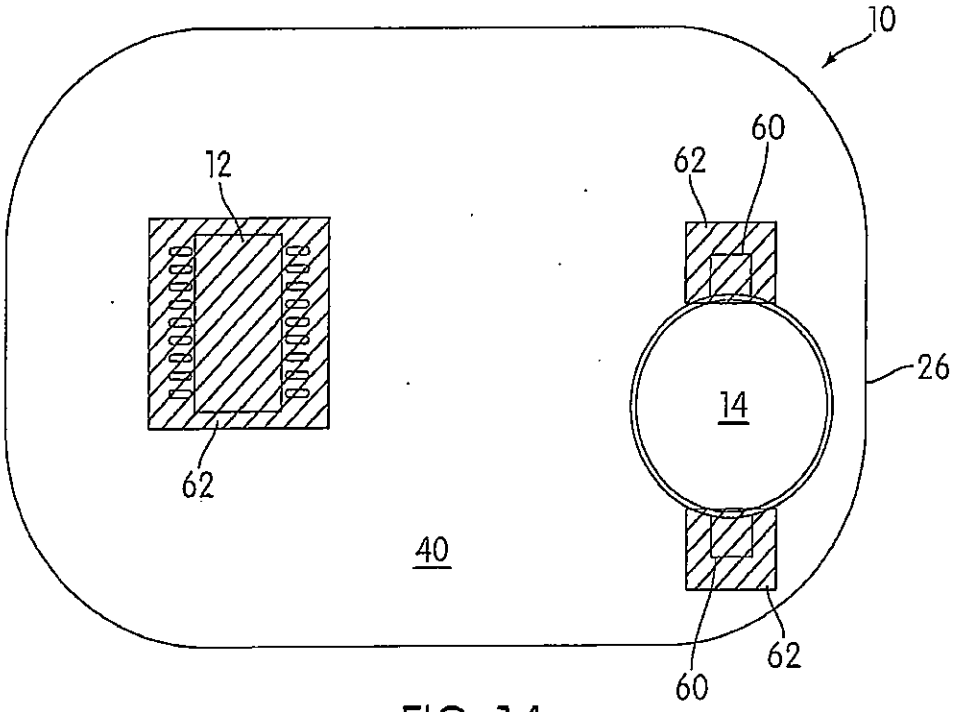
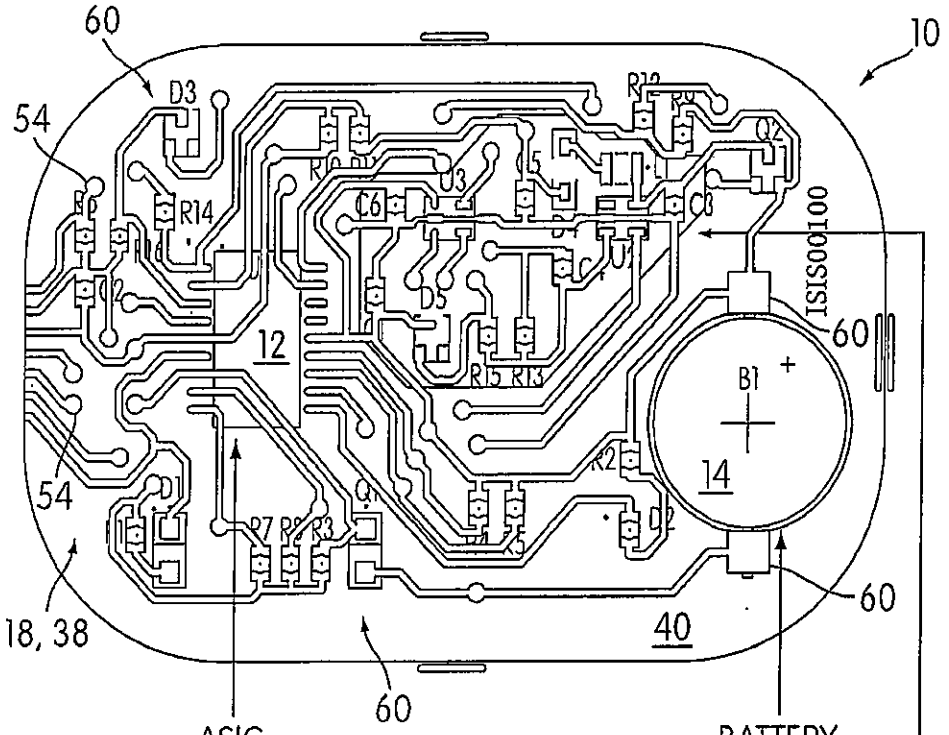


FIG. 14

COMPLETE CIRCUIT, PRIMARY COMPONENT SIDE
(DIELECTRIC FILL NOT SHOWN)



SWITCHING REGULATOR AND ASSOCIATED COMPONENTS:
CHARGE PUMP CIRCUIT FOR INCREASED ELECTRICAL OUTPUT

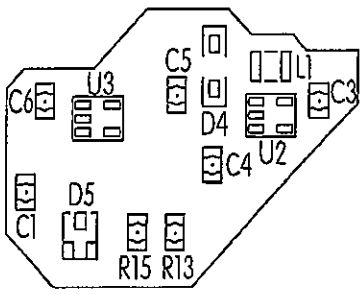


FIG. 15

COMPLETE CIRCUIT, SECONDARY ELECTRODE SIDE
(DIELECTRIC FILL AND MEDICAL FOAM NOT SHOWN)

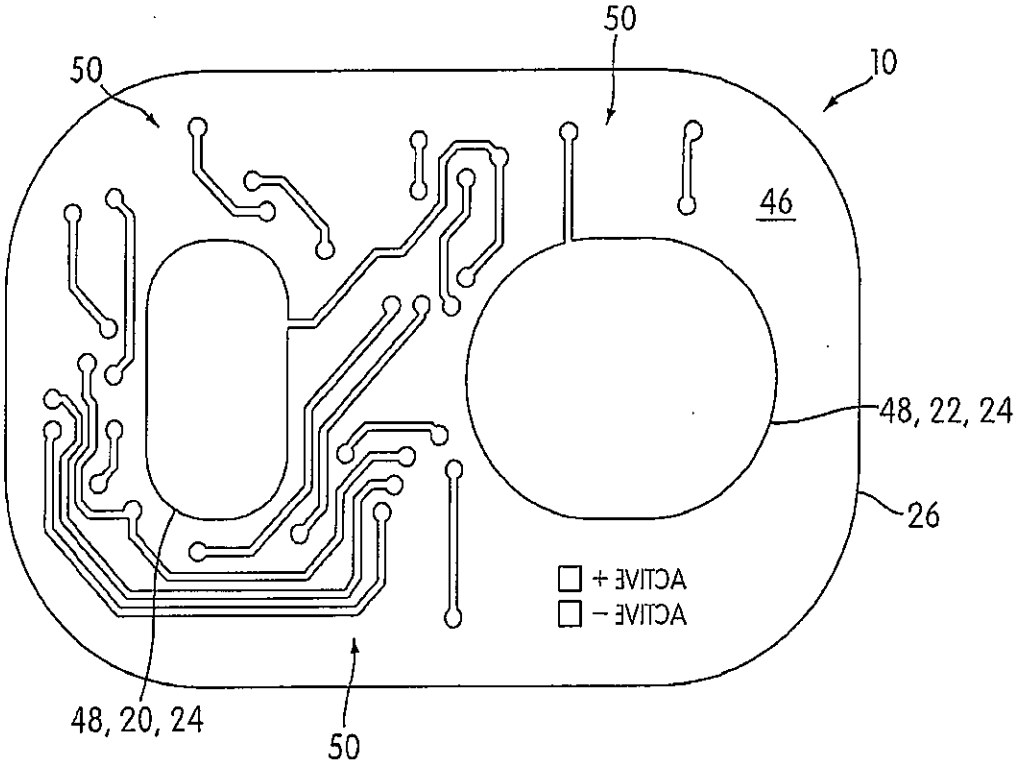


FIG. 16

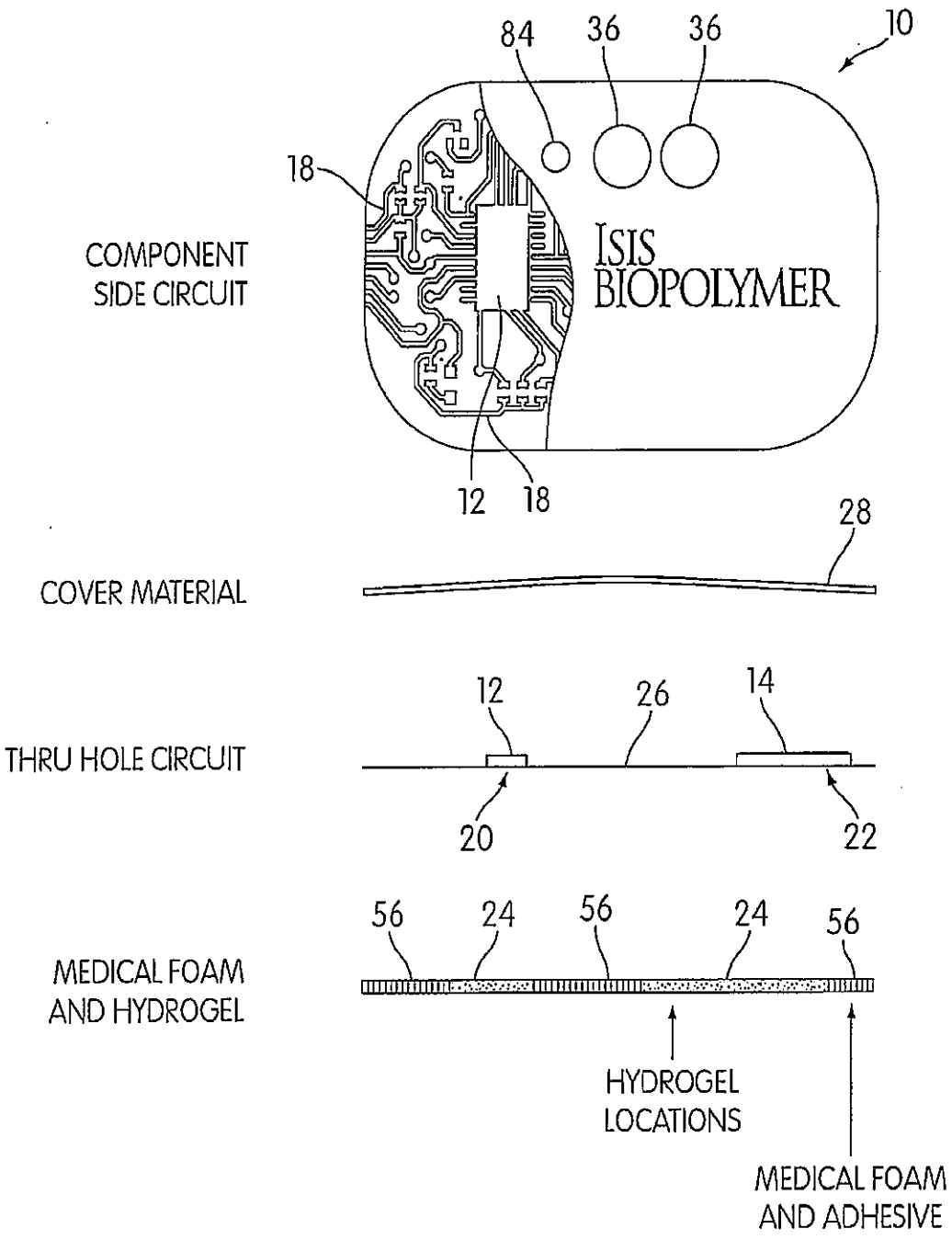

COMPLETE CIRCUIT:
COMPONENT SIDE, INDIVIDUAL LAYERS, ELECTRODE SIDE
84
36
36
10
18
COMPONENT SIDE CIRCUIT
ISIS BIOPOLYMER
12
18
28
COVER MATERIAL
12
26
14
THRU HOLE CIRCUIT
20
22
56
24
56
24
56
MEDICAL FOAM AND HYDROGEL
HYDROGEL LOCATIONS
MEDICAL FOAM AND ADHESIVE

FIG. 17

MEDICAL FOAM ADHESIVE AND BARRIER MEMBRANE, SECONDARY ELECTRODE SIDE

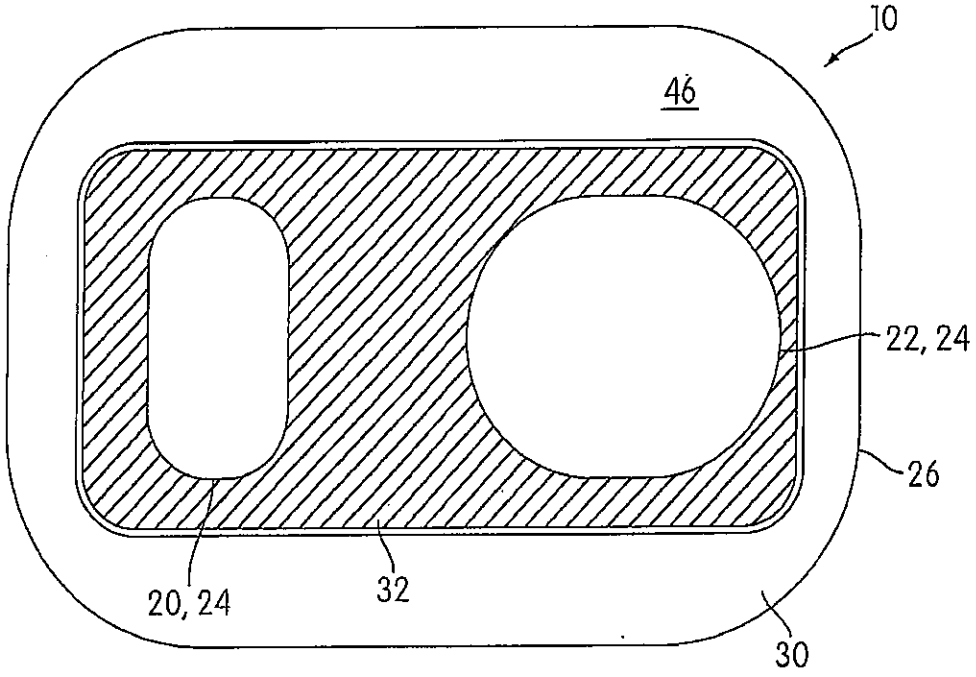


FIG. 18

THREE DRUG RESERVOIRS, SECONDARY ELECTRODE SIDE

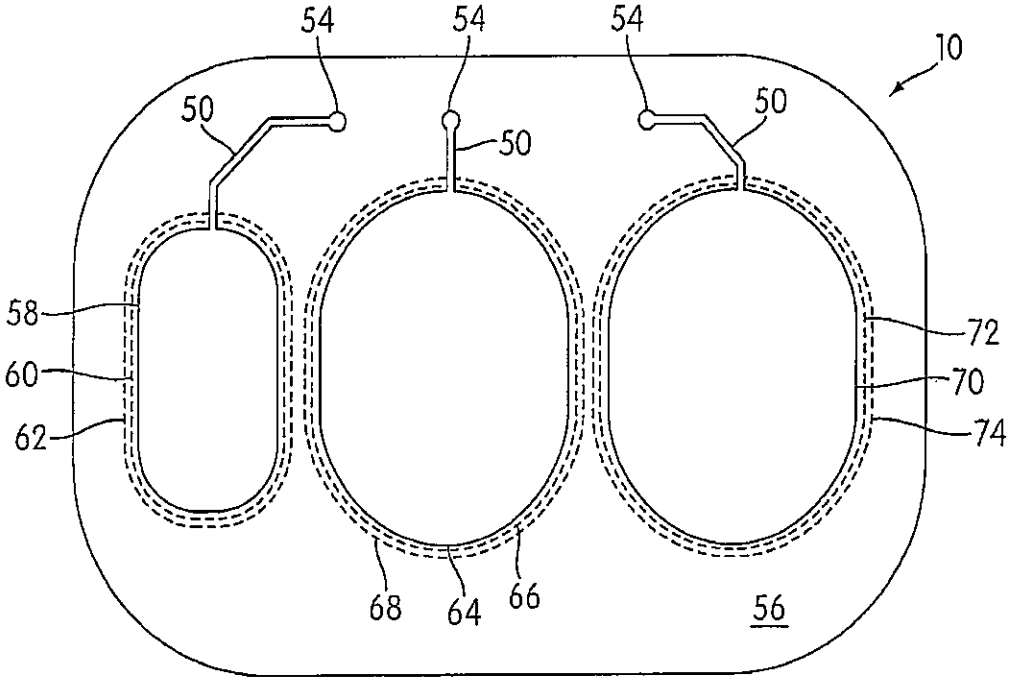


FIG. 19

SWITCH ACTIVATION OF PATCH, SIDE VIEW

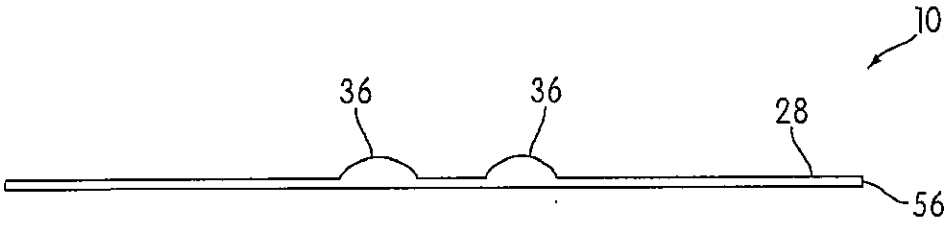


FIG. 20