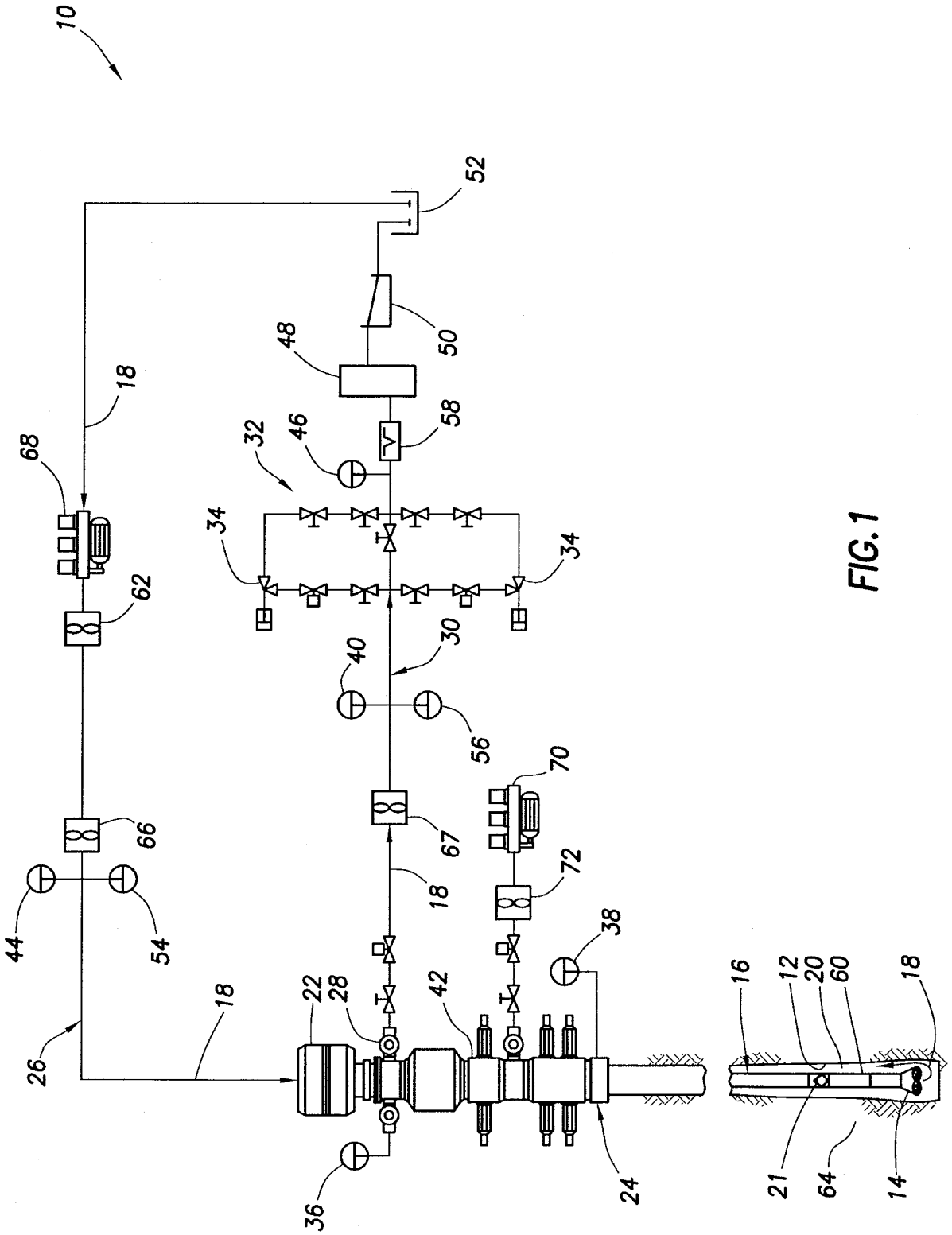

10
52
50
48
18
58
68
46
32
34
34
62
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66
67
72
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44
54
38
18
22
28
42
16
12
20
60
18
26
24
21
64
14
36

FIG. 1

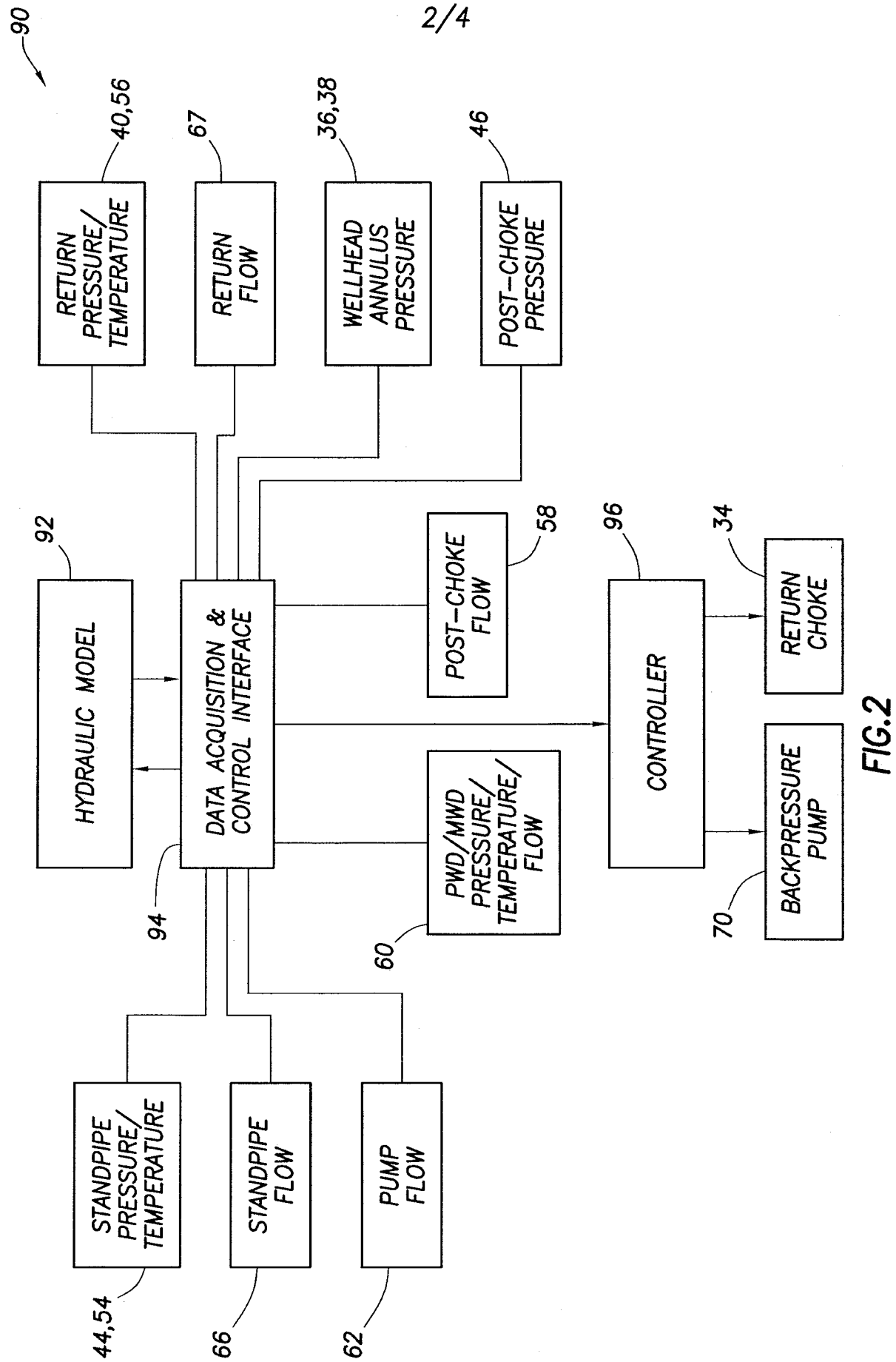

90
RETURN PRESSURE/ TEMPERATURE
40,56
RETURN FLOW
67
WELLHEAD ANNULUS PRESSURE
36,38
POST-CHOKE PRESSURE
46
HYDRAULIC MODEL
92
DATA ACQUISITION & CONTROL INTERFACE
94
POST-CHOKE FLOW
58
PWD/MWD PRESSURE/ TEMPERATURE/ FLOW
60
CONTROLLER
96
RETURN CHOKE
34
BACKPRESSURE PUMP
70
STANDPIPE PRESSURE/ TEMPERATURE
44,54
STANDPIPE FLOW
66
PUMP FLOW
62

FIG.2

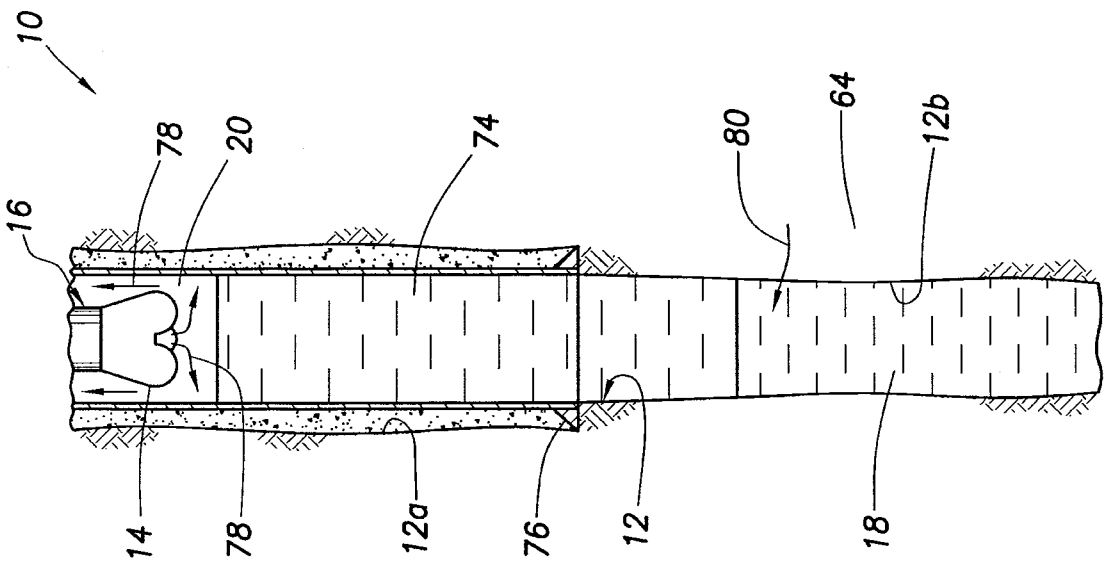

10
16
78
20
74
80
64
12b
14
78
12a
76
12
18

FIG.4

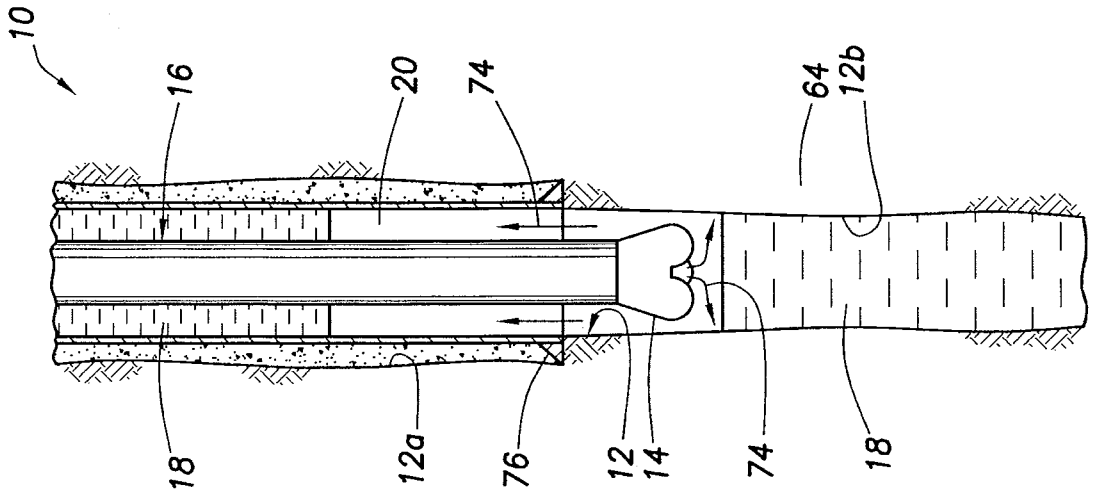

10
16
20
74
64
12b
18
12a
76
12
14
74
18

FIG.3

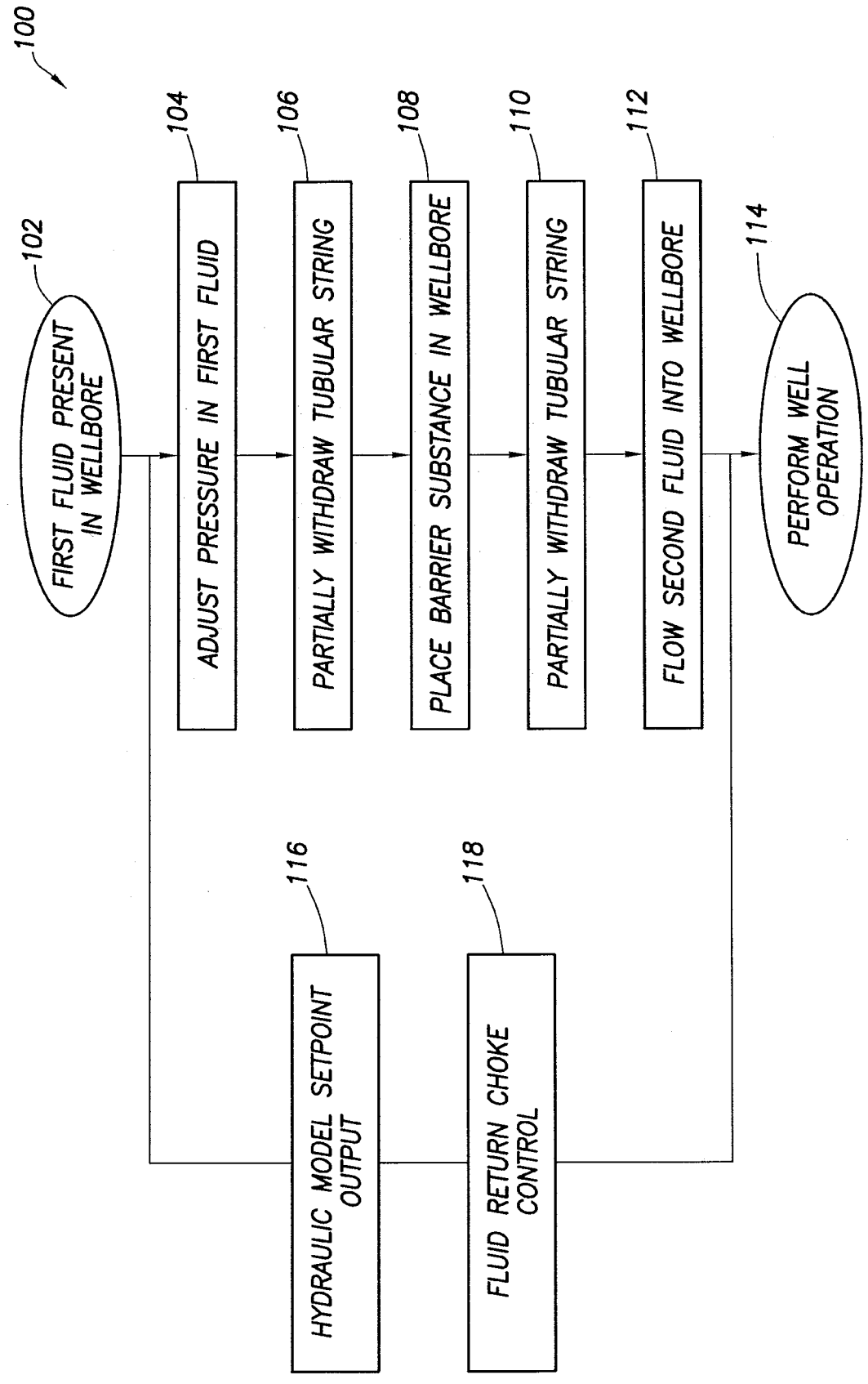

100
102
FIRST FLUID PRESENT IN WELLBORE
104
ADJUST PRESSURE IN FIRST FLUID
106
PARTIALLY WITHDRAW TUBULAR STRING
108
PLACE BARRIER SUBSTANCE IN WELLBORE
110
PARTIALLY WITHDRAW TUBULAR STRING
112
FLOW SECOND FLUID INTO WELLBORE
114
PERFORM WELL OPERATION
116
HYDRAULIC MODEL SETPOINT OUTPUT
118
FLUID RETURN CHOKE CONTROL

FIG.5