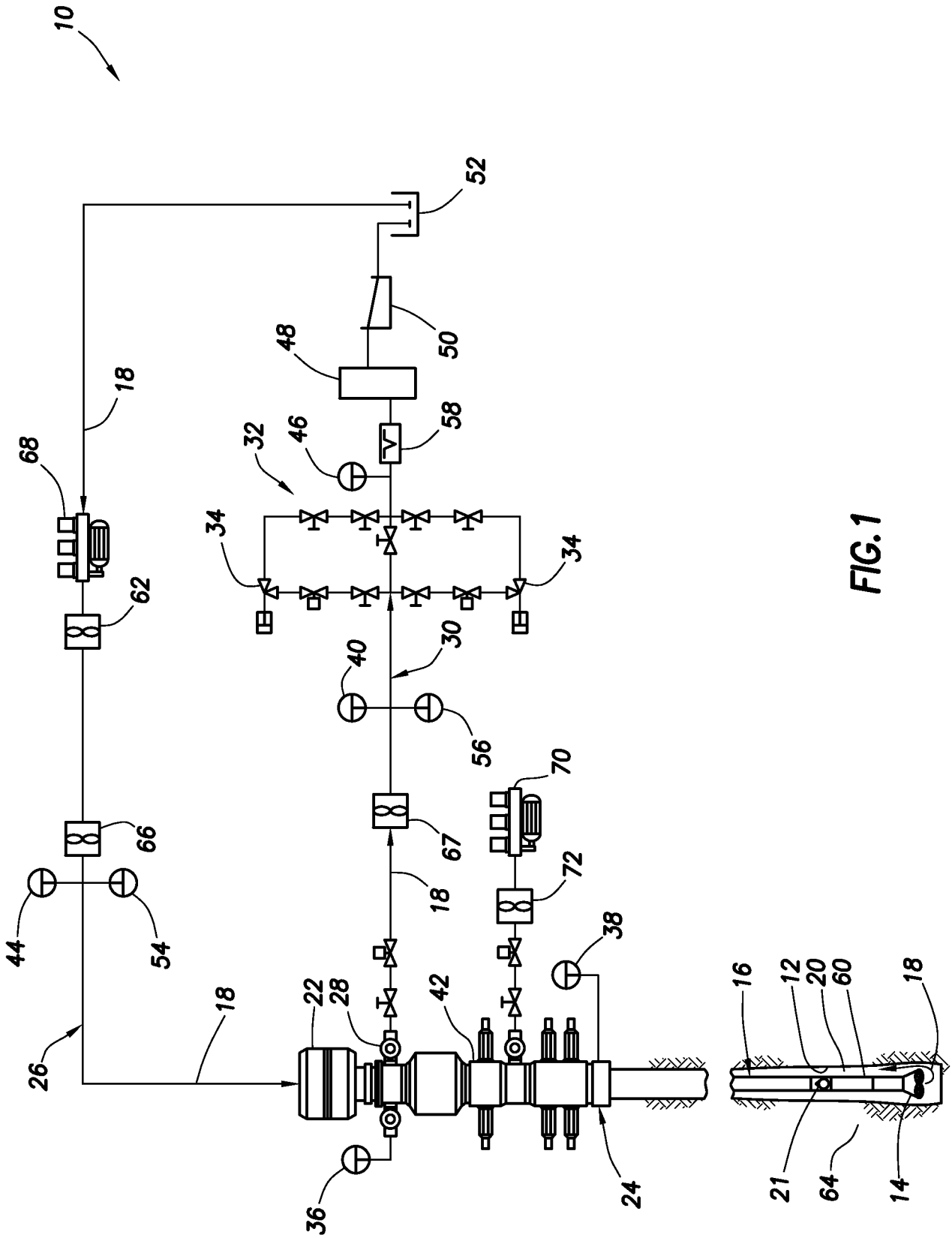

10
52
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48
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68
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72
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12
20
60
18
21
64
14
36
24

FIG.1

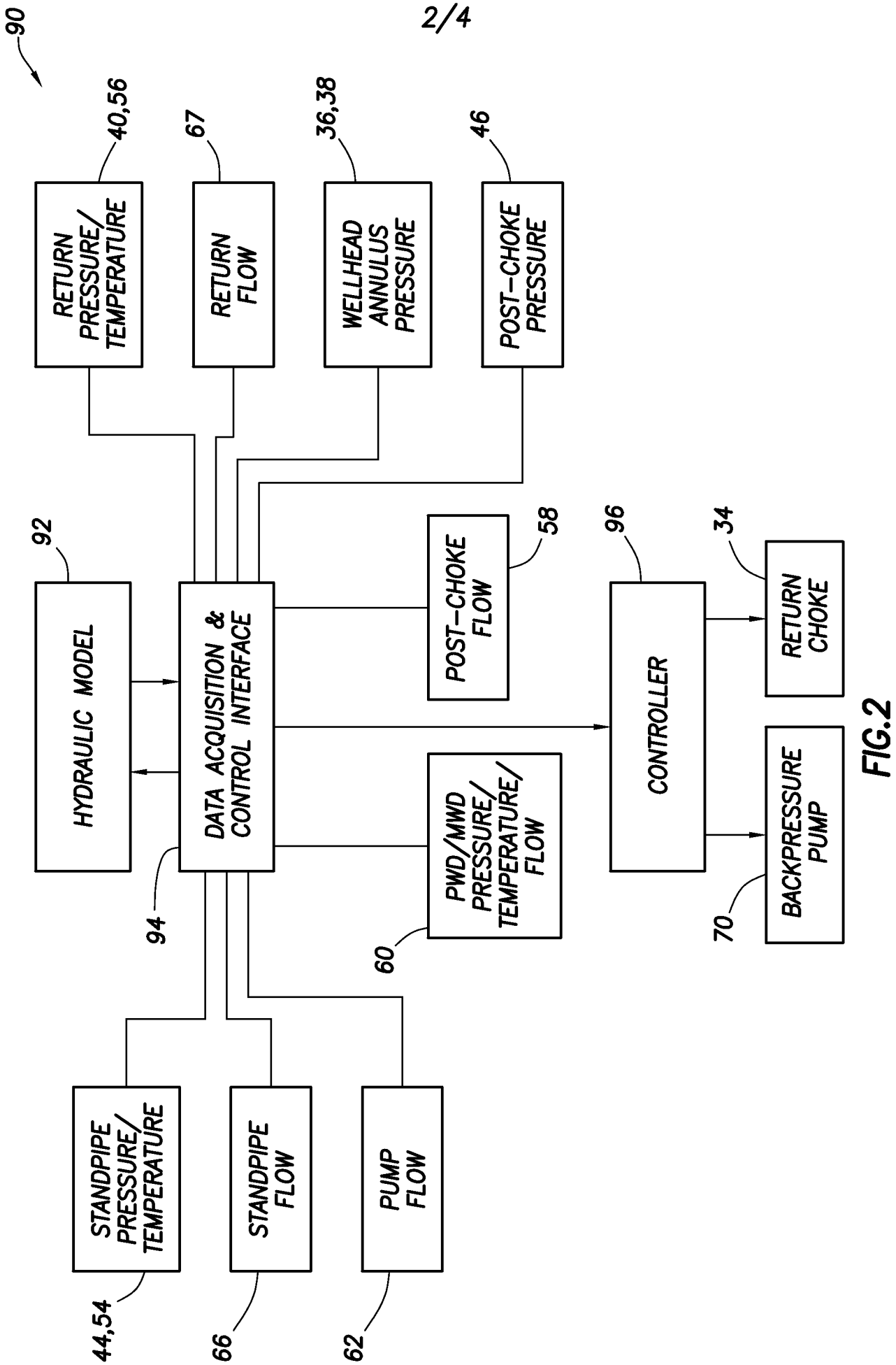

90
40,56
RETURN PRESSURE/ TEMPERATURE
67
RETURN FLOW
36,38
WELLHEAD ANNULUS PRESSURE
46
POST-CHOKE PRESSURE
92
HYDRAULIC MODEL
DATA ACQUISITION & CONTROL INTERFACE
94
POST-CHOKE FLOW
58
PWD/MWD PRESSURE/ TEMPERATURE/ FLOW
60
96
CONTROLLER
34
RETURN CHOKE
BACKPRESSURE PUMP
70
STANDPIPE PRESSURE/ TEMPERATURE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

FIG.2

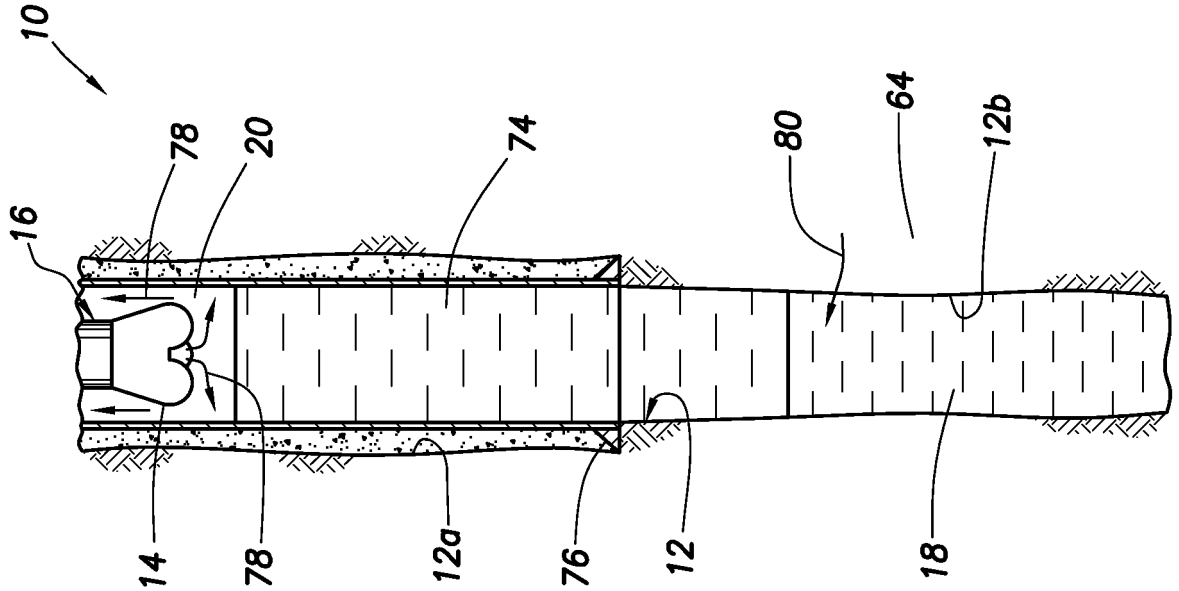

10
16
78
20
74
80
64
12b
14
78
12a
76
12
18

FIG.4

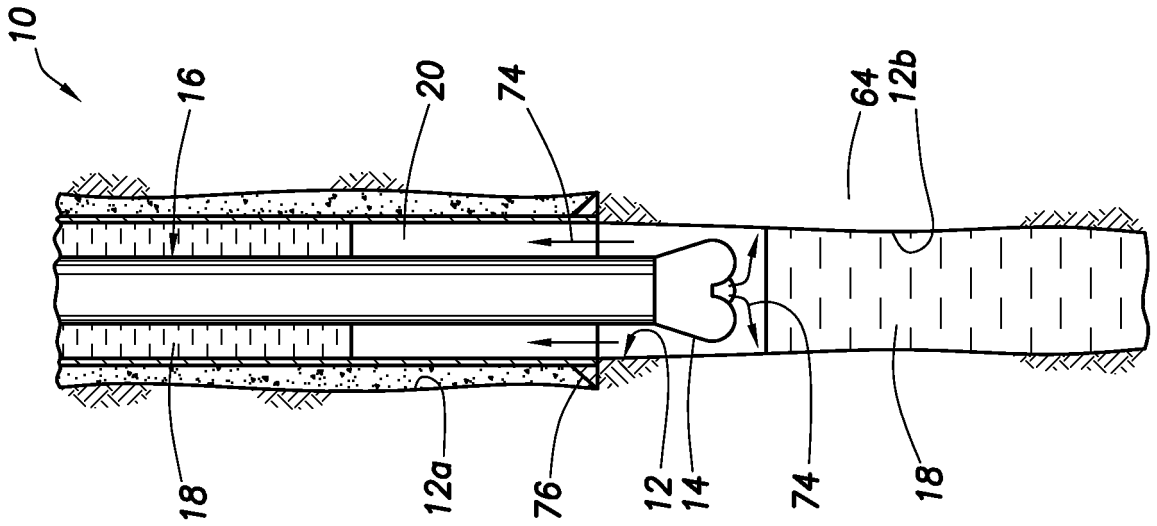

10
16
20
74
64
12b
18
12a
76
12
14
74
18

FIG.3

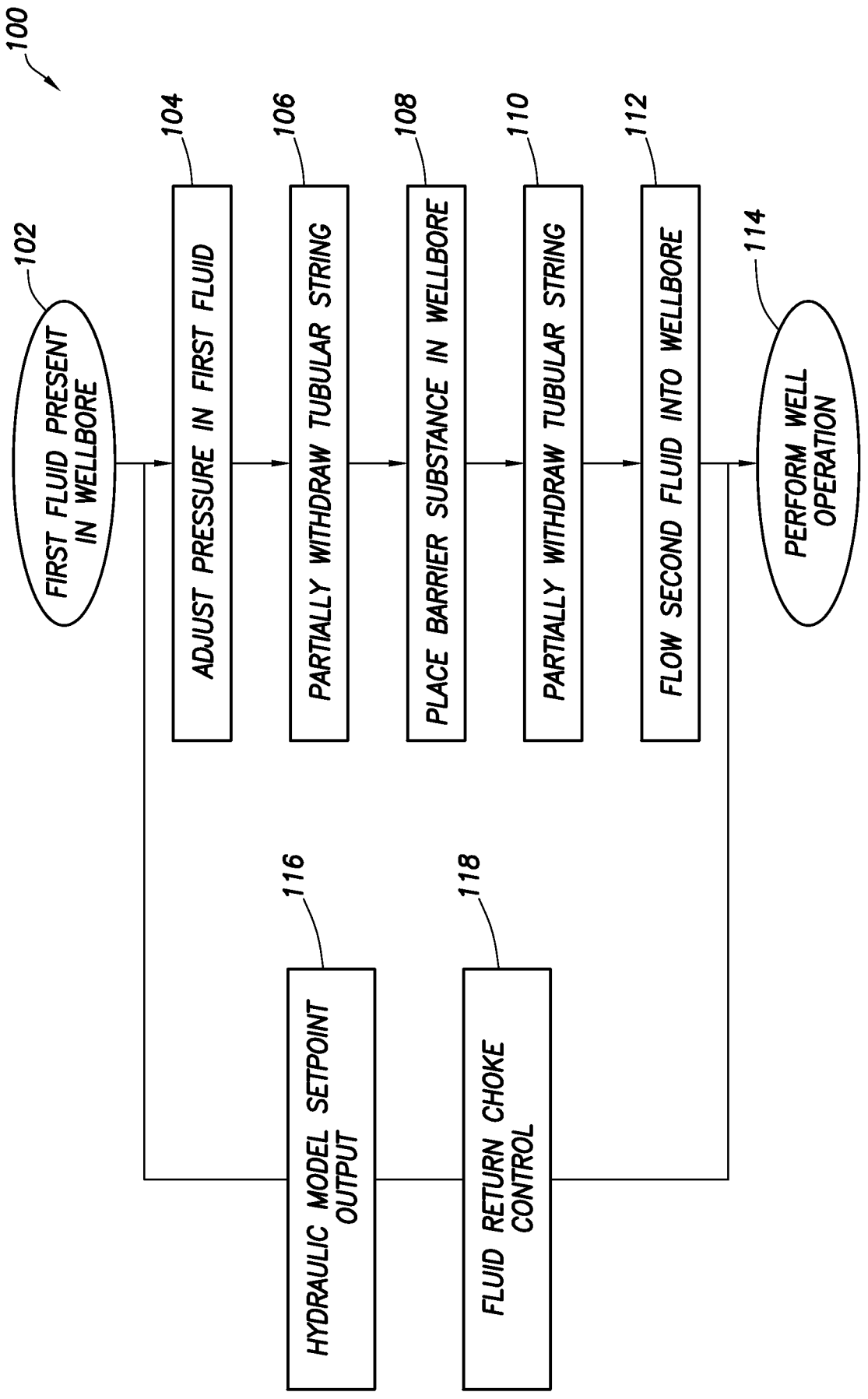

100
102
FIRST FLUID PRESENT IN WELLBORE
104
ADJUST PRESSURE IN FIRST FLUID
106
PARTIALLY WITHDRAW TUBULAR STRING
108
PLACE BARRIER SUBSTANCE IN WELLBORE
110
PARTIALLY WITHDRAW TUBULAR STRING
112
FLOW SECOND FLUID INTO WELLBORE
114
PERFORM WELL OPERATION
116
HYDRAULIC MODEL SETPOINT OUTPUT
118
FLUID RETURN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

FIG.5