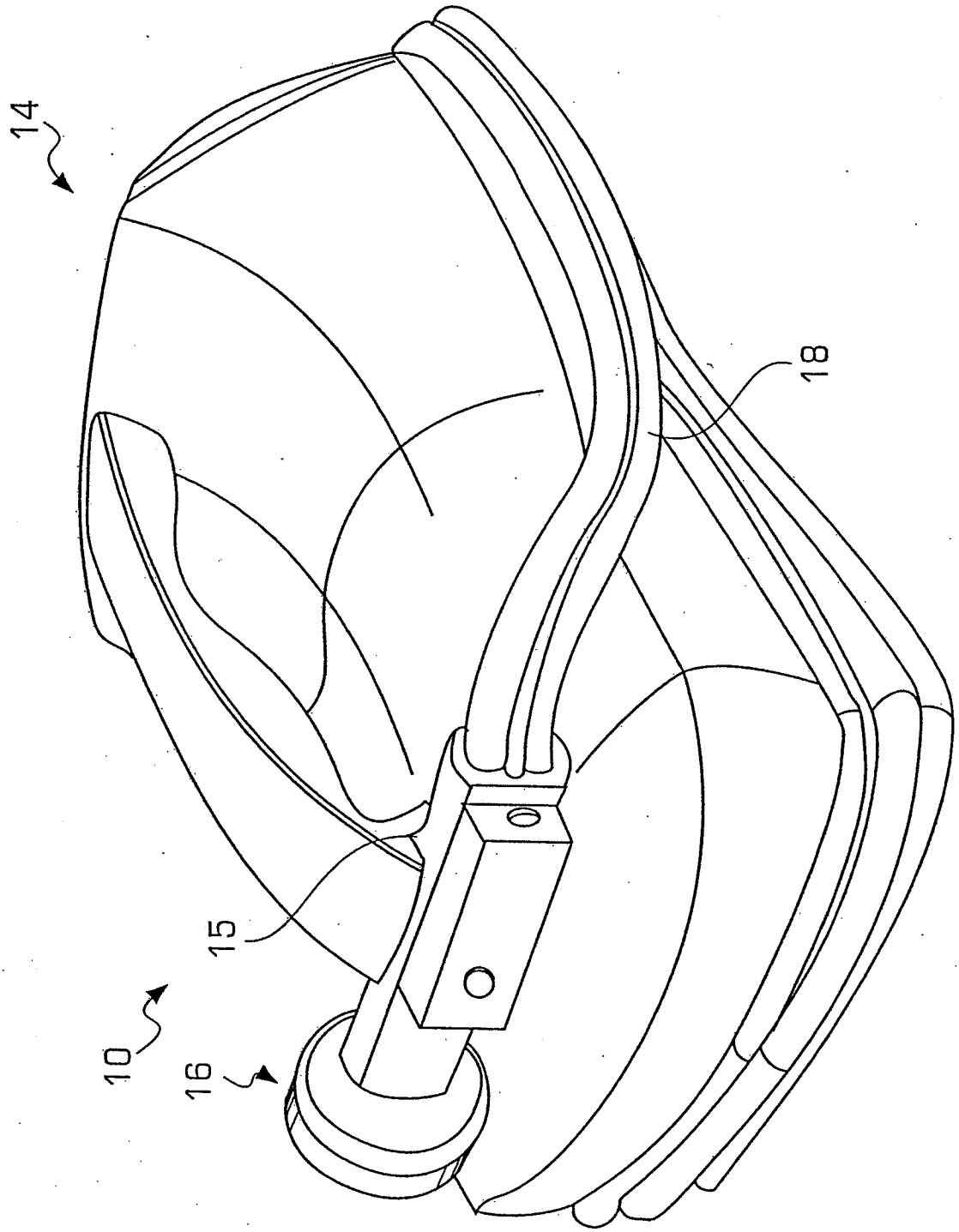


FIG. 1A

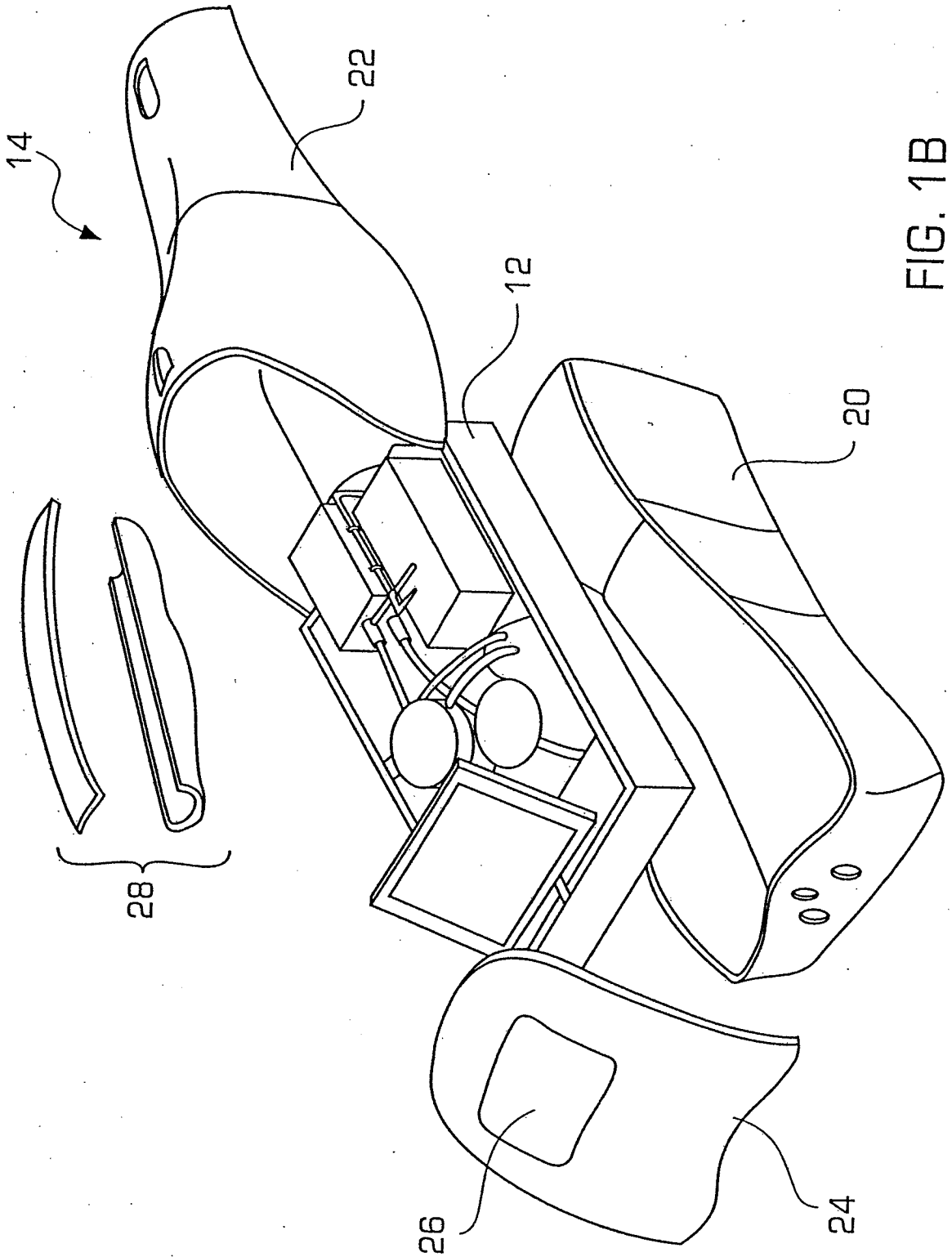


FIG. 1B

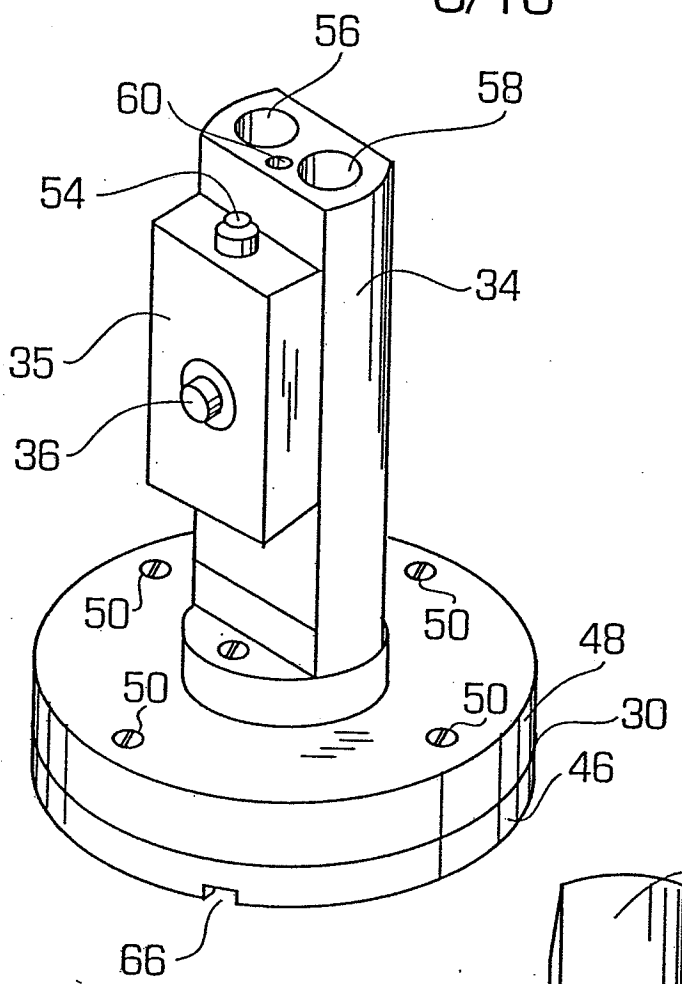

56
60
58
54
34
35
16
36
50
50
48
50
50
30
46
66

FIG. 2A

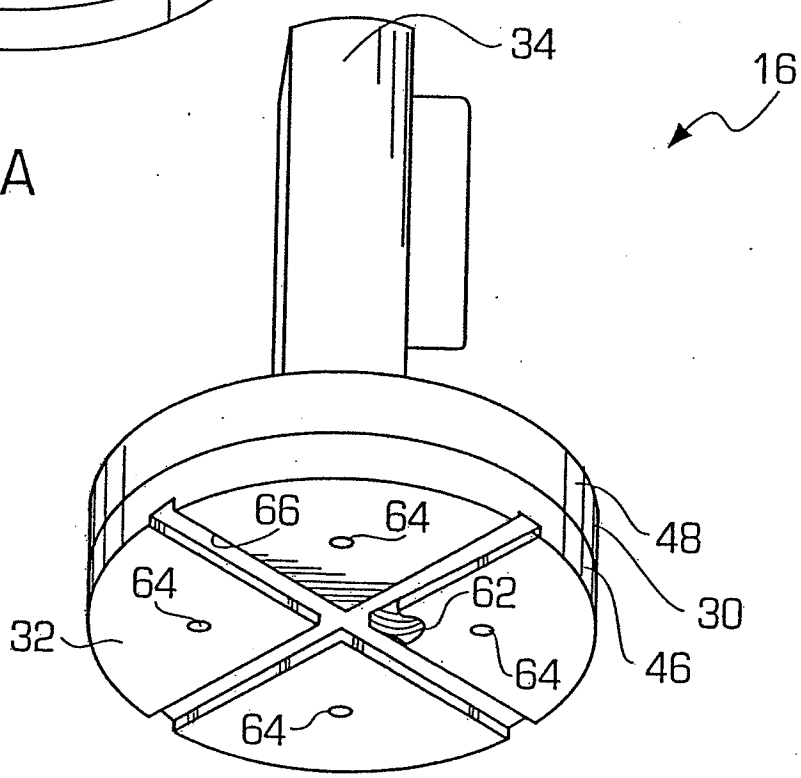

34
16
66
64
48
64
62
30
32
64
46
64

FIG. 2B

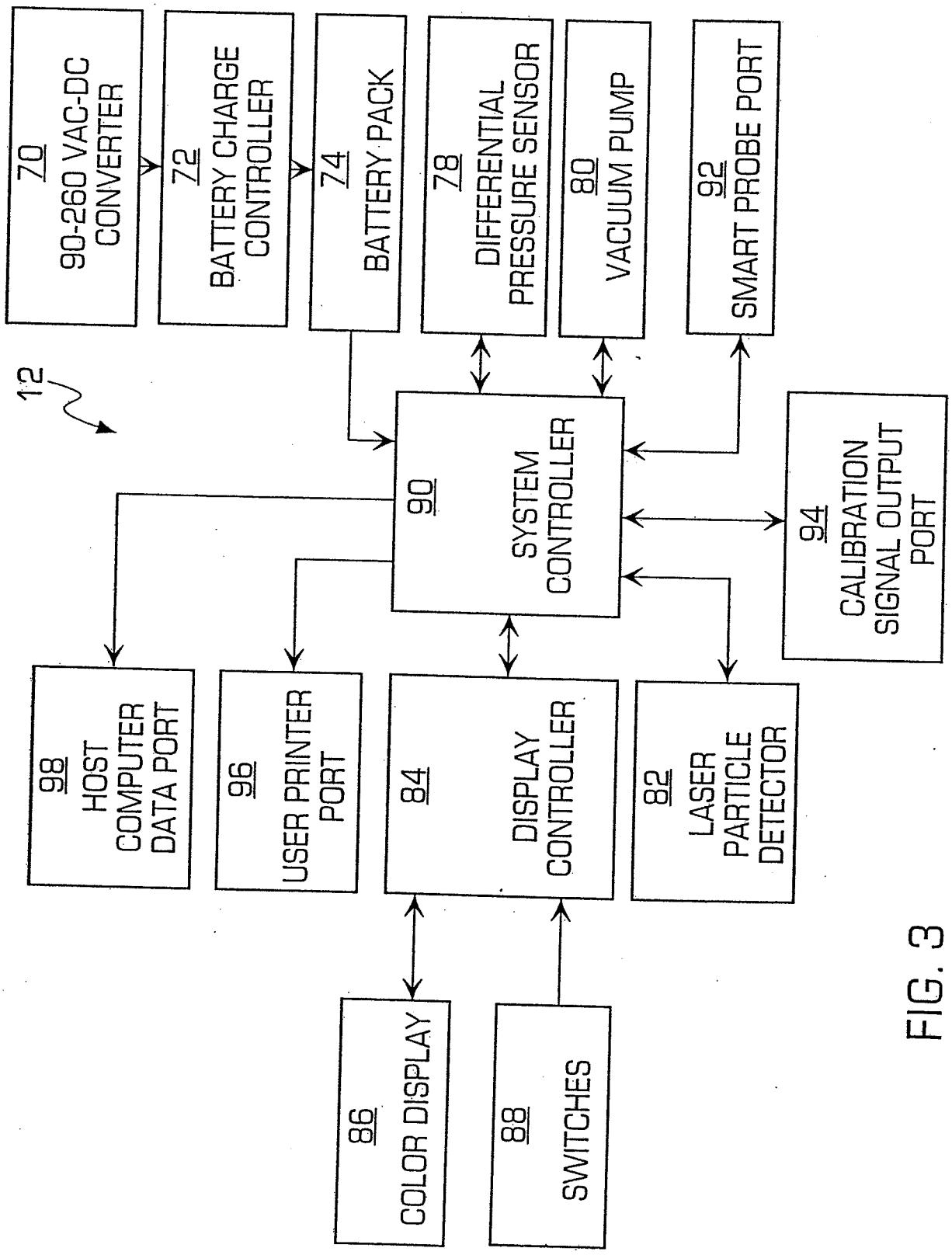

70
90-260 VAC-DC CONVERTER
72
BATTERY CHARGE CONTROLLER
74
BATTERY PACK
78
DIFFERENTIAL PRESSURE SENSOR
80
VACUUM PUMP
92
SMART PROBE PORT
12
90
SYSTEM CONTROLLER
94
CALIBRATION SIGNAL OUTPUT PORT
98
HOST COMPUTER DATA PORT
96
USER PRINTER PORT
84
DISPLAY CONTROLLER
82
LASER PARTICLE DETECTOR
86
COLOR DISPLAY
88
SWITCHES

FIG. 3

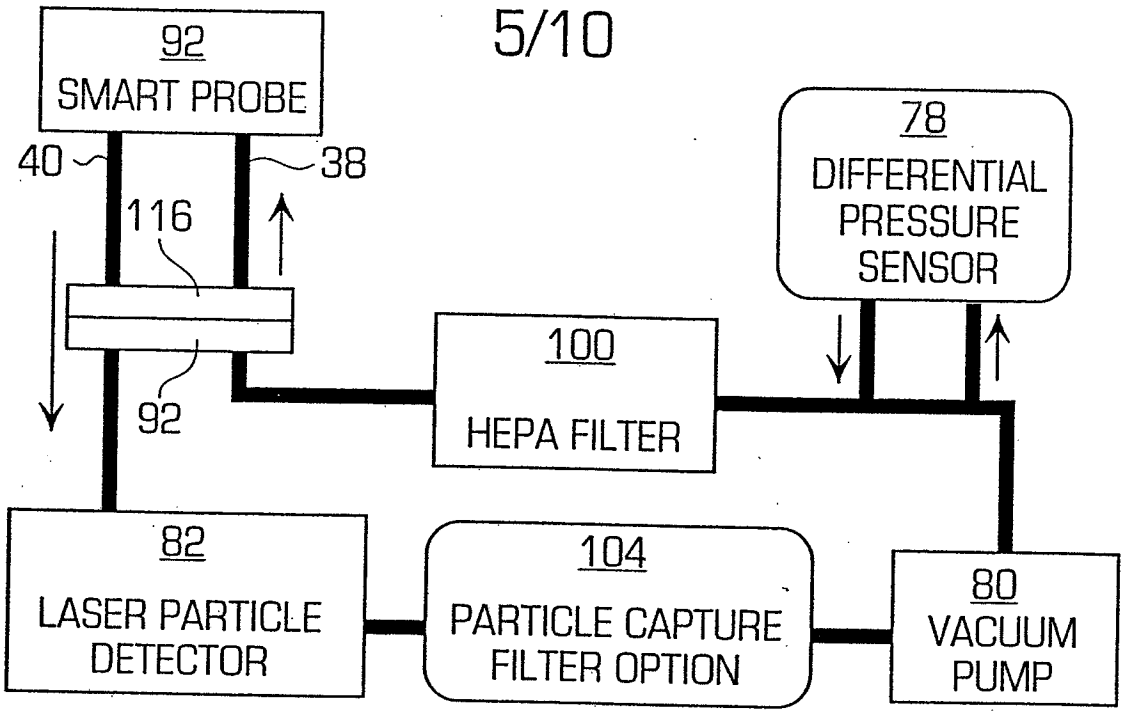


FIG. 4

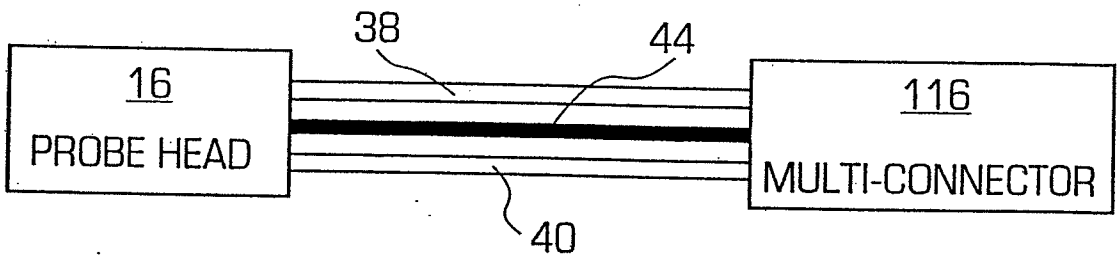


FIG. 7A

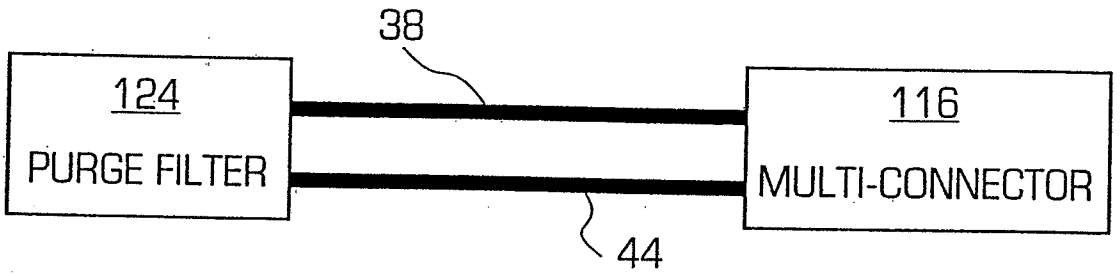


FIG. 7B

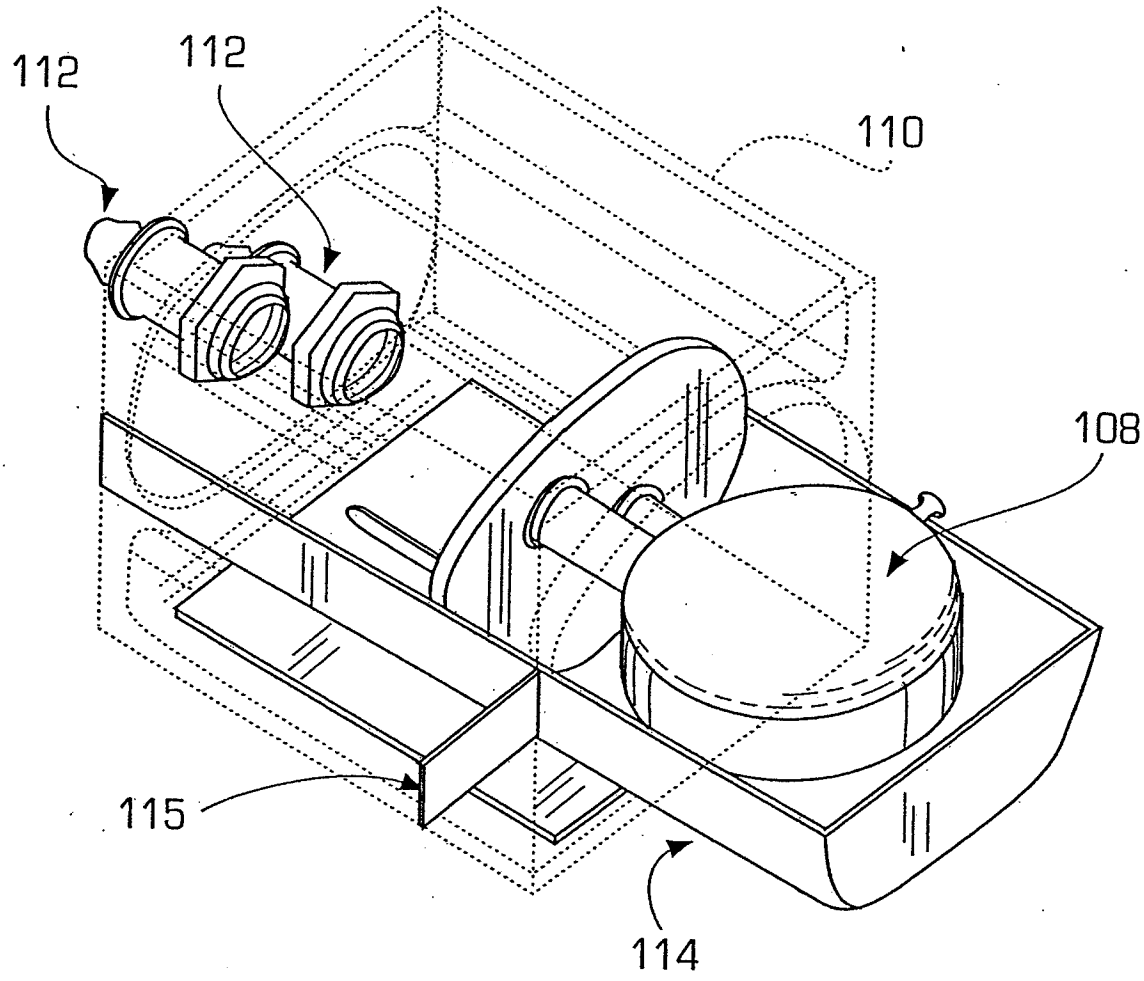


FIG. 5

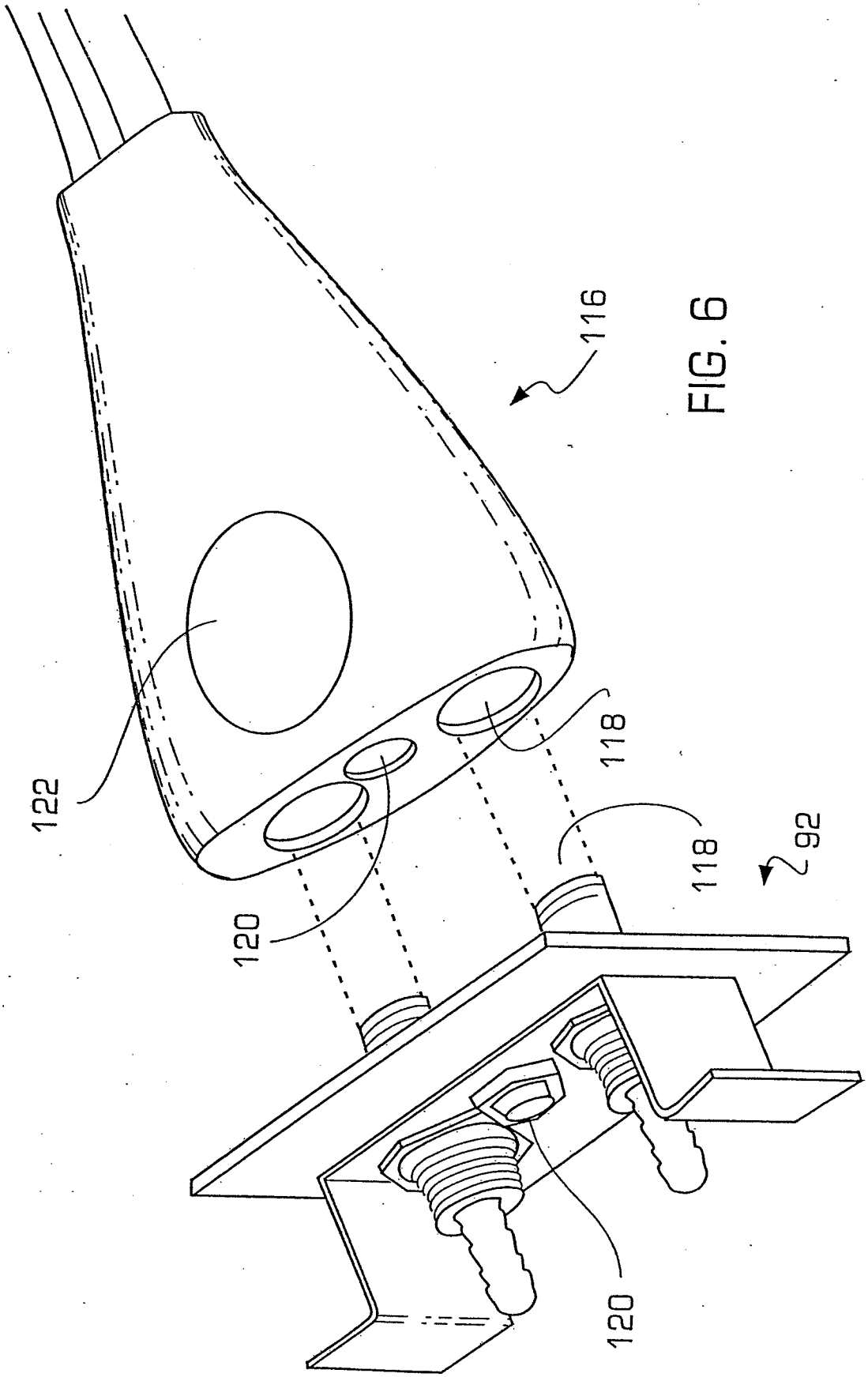


FIG. 6

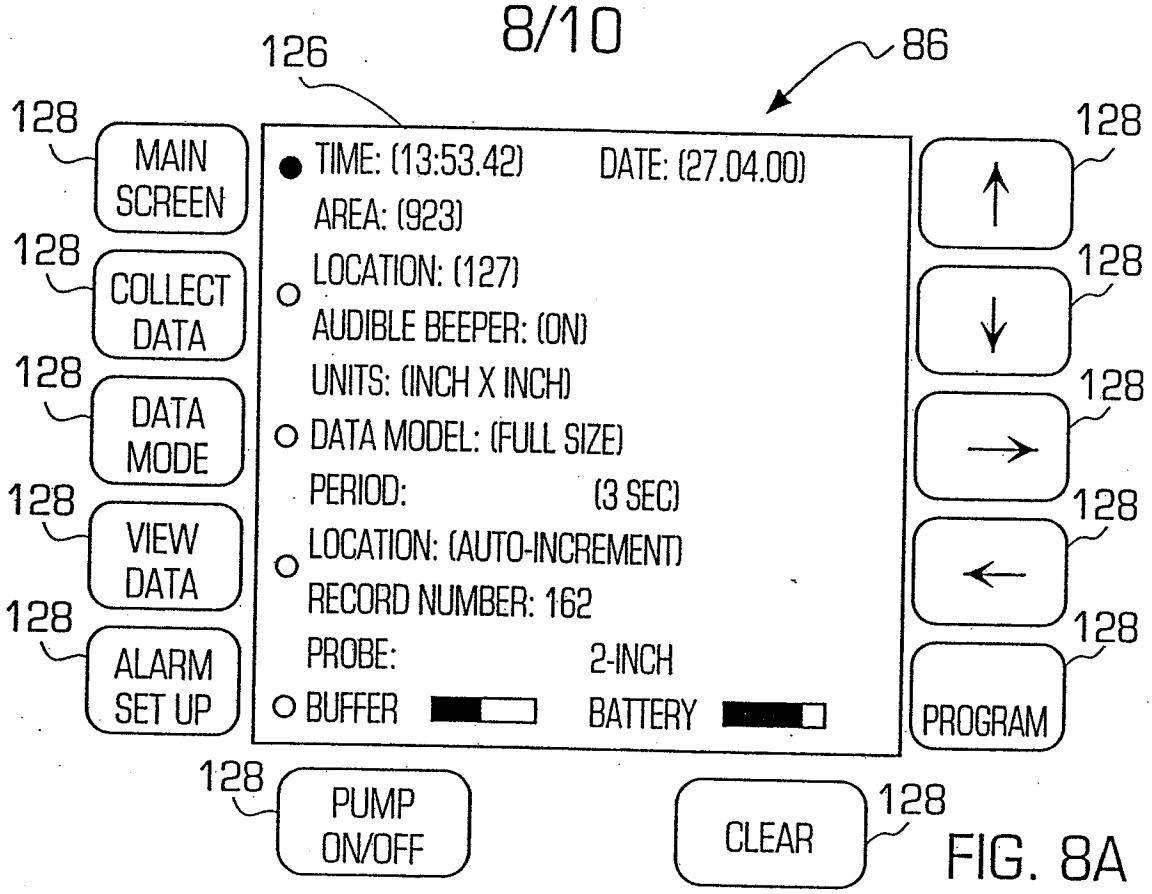

126
86
128
MAIN SCREEN
COLLECT DATA
DATA MODE
VIEW DATA
ALARM SET UP
TIME: (13:53.42)
DATE: (27.04.00)
AREA: (923)
LOCATION: (127)
AUDIBLE BEEPER: (ON)
UNITS: (INCH X INCH)
DATA MODEL: (FULL SIZE)
PERIOD: (3 SEC)
LOCATION: (AUTO-INCREMENT)
RECORD NUMBER: 162
PROBE: 2-INCH
BUFFER
BATTERY
PROGRAM
PUMP ON/OFF
CLEAR

FIG. 8A

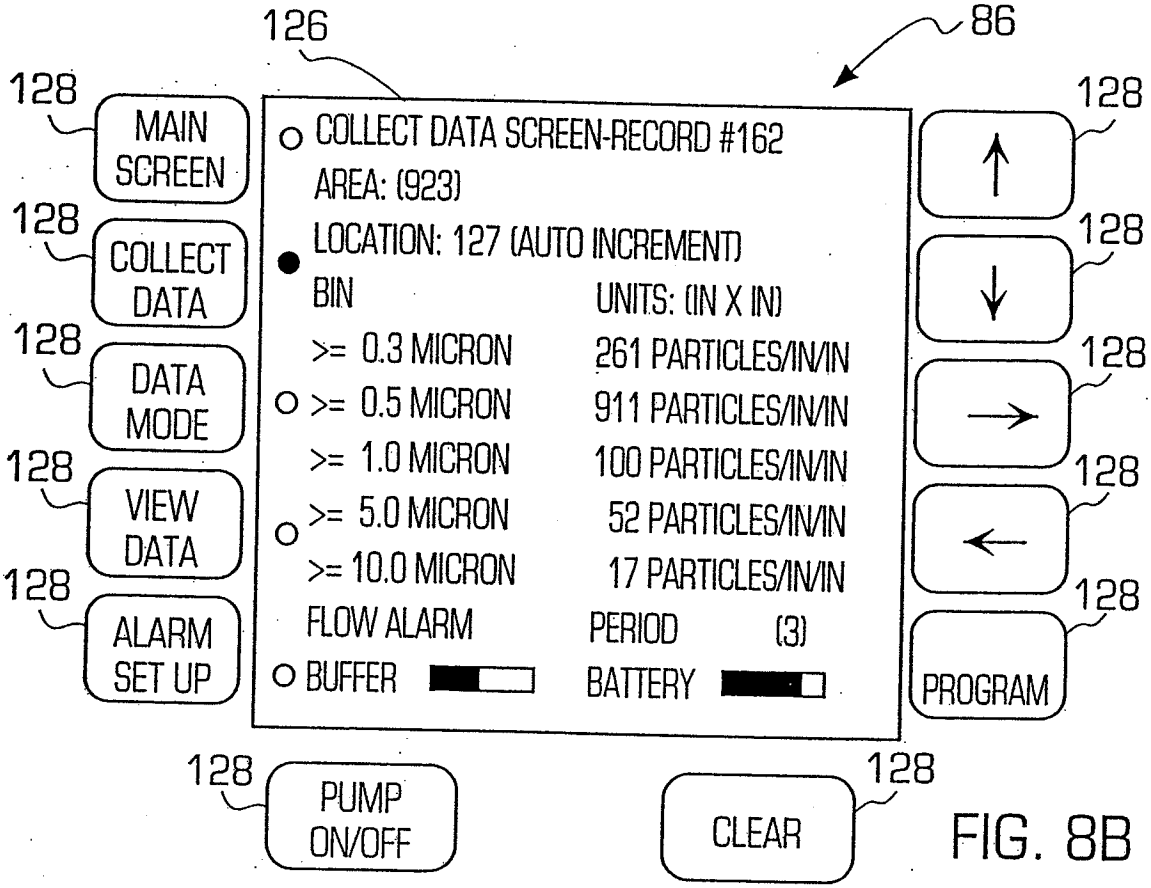

126
86
128
MAIN SCREEN
COLLECT DATA
DATA MODE
VIEW DATA
ALARM SET UP
COLLECT DATA SCREEN-RECORD #162
AREA: (923)
LOCATION: 127 (AUTO INCREMENT)
BIN
UNITS: (IN X IN)
>= 0.3 MICRON
261 PARTICLES/IN/IN
>= 0.5 MICRON
911 PARTICLES/IN/IN
>= 1.0 MICRON
100 PARTICLES/IN/IN
>= 5.0 MICRON
52 PARTICLES/IN/IN
>= 10.0 MICRON
17 PARTICLES/IN/IN
FLOW ALARM
PERIOD (3)
BUFFER
BATTERY
PROGRAM
PUMP ON/OFF
CLEAR

FIG. 8B

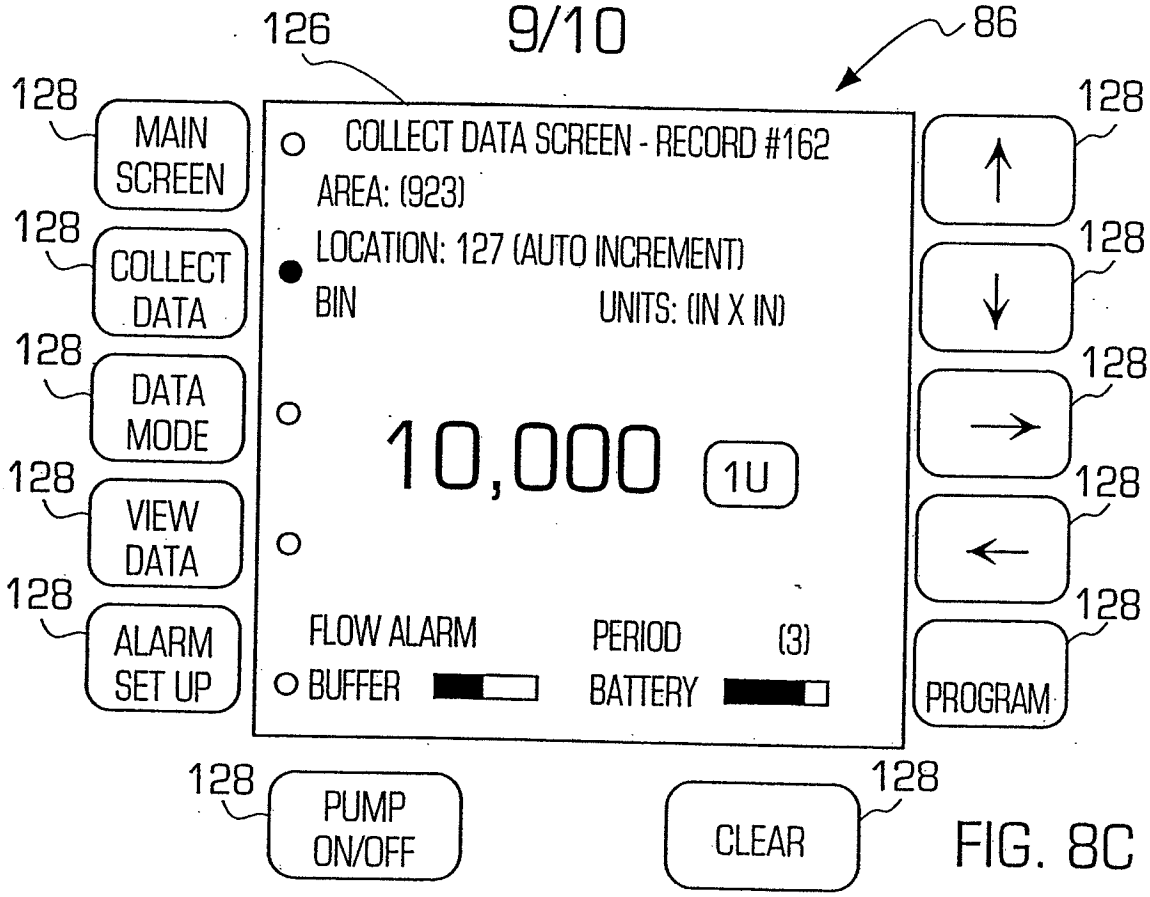

126
86
128
MAIN SCREEN
COLLECT DATA
DATA MODE
VIEW DATA
ALARM SET UP
COLLECT DATA SCREEN - RECORD #162
AREA: (923)
LOCATION: 127 (AUTO INCREMENT)
BIN
UNITS: (IN X IN)
10,000
1U
FLOW ALARM
PERIOD
(3)
BUFFER
BATTERY
PROGRAM
PUMP ON/OFF
CLEAR

FIG. 8C

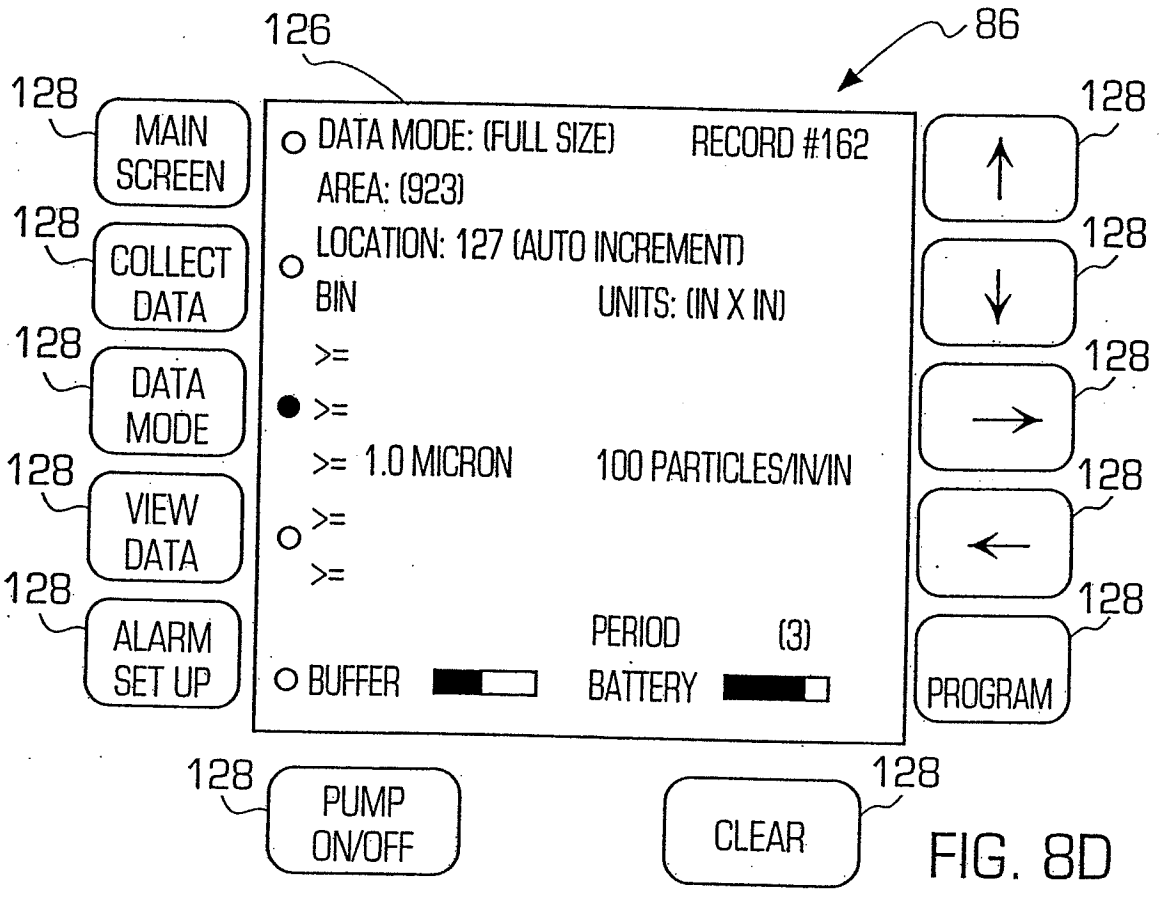

126
86
128
MAIN SCREEN
COLLECT DATA
DATA MODE
VIEW DATA
ALARM SET UP
DATA MODE: (FULL SIZE)
RECORD #162
AREA: (923)
LOCATION: 127 (AUTO INCREMENT)
BIN
UNITS: (IN X IN)
>=
>=
>= 1.0 MICRON
100 PARTICLES/IN/IN
>=
>=
PERIOD
(3)
BUFFER
BATTERY
PROGRAM
PUMP ON/OFF
CLEAR

FIG. 8D

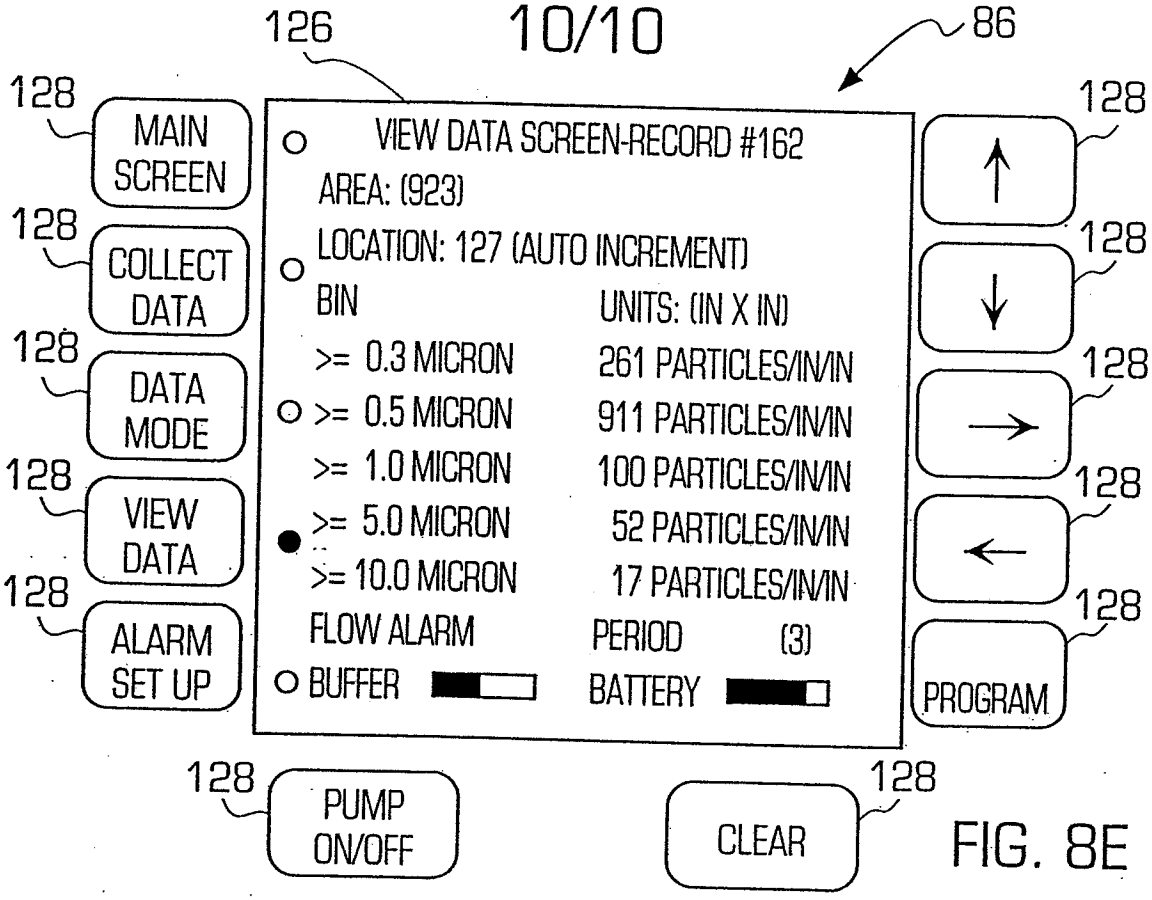

126
86
128
MAIN SCREEN
COLLECT DATA
DATA MODE
VIEW DATA
ALARM SET UP
VIEW DATA SCREEN-RECORD #162
AREA: (923)
LOCATION: 127 (AUTO INCREMENT)
BIN
UNITS: (IN X IN)
>= 0.3 MICRON
261 PARTICLES/IN/IN
>= 0.5 MICRON
911 PARTICLES/IN/IN
>= 1.0 MICRON
100 PARTICLES/IN/IN
>= 5.0 MICRON
52 PARTICLES/IN/IN
>= 10.0 MICRON
17 PARTICLES/IN/IN
FLOW ALARM
PERIOD (3)
BUFFER
BATTERY
PROGRAM
PUMP ON/OFF
CLEAR

FIG. 8E

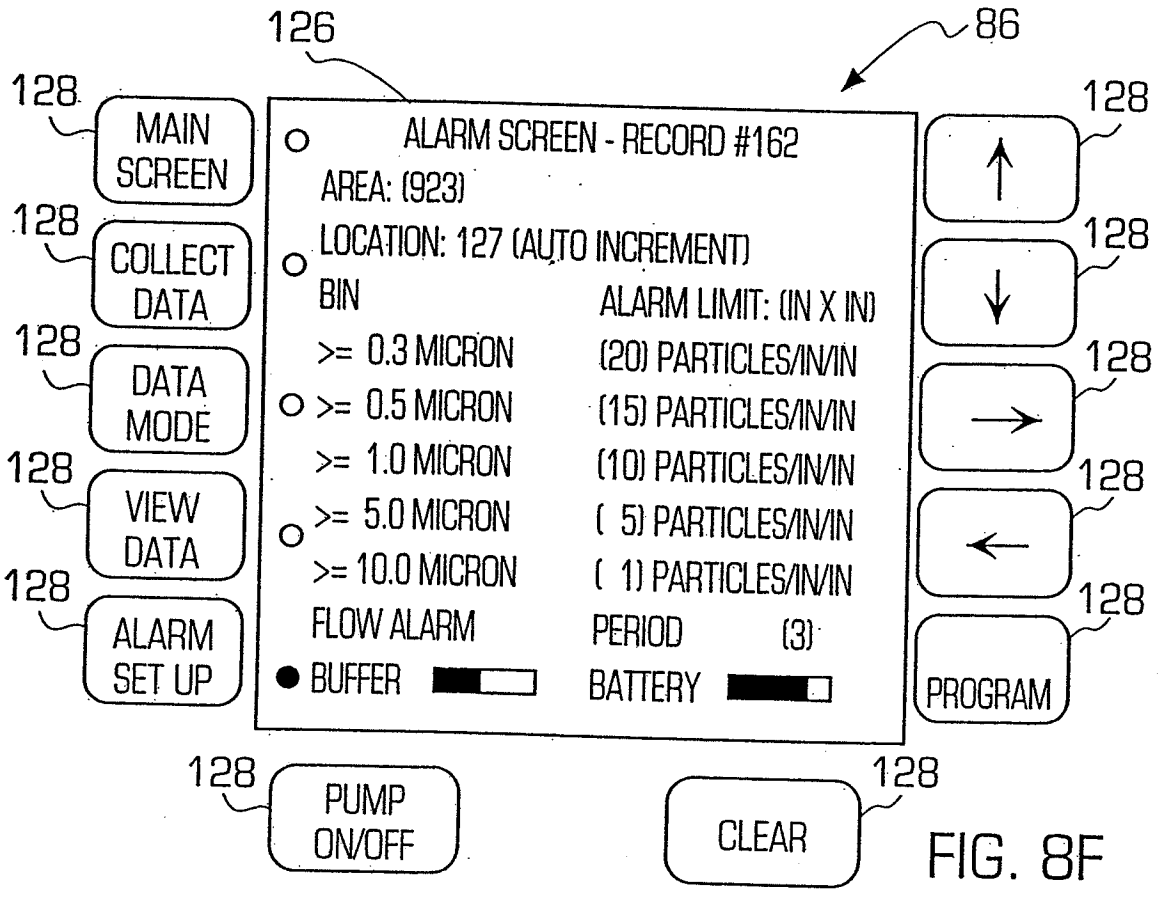

126
86
128
MAIN SCREEN
COLLECT DATA
DATA MODE
VIEW DATA
ALARM SET UP
ALARM SCREEN - RECORD #162
AREA: (923)
LOCATION: 127 (AUTO INCREMENT)
BIN
ALARM LIMIT: (IN X IN)
>= 0.3 MICRON
(20) PARTICLES/IN/IN
>= 0.5 MICRON
(15) PARTICLES/IN/IN
>= 1.0 MICRON
(10) PARTICLES/IN/IN
>= 5.0 MICRON
(5) PARTICLES/IN/IN
>= 10.0 MICRON
(1) PARTICLES/IN/IN
FLOW ALARM
PERIOD (3)
BUFFER
BATTERY
PROGRAM
PUMP ON/OFF
CLEAR

FIG. 8F