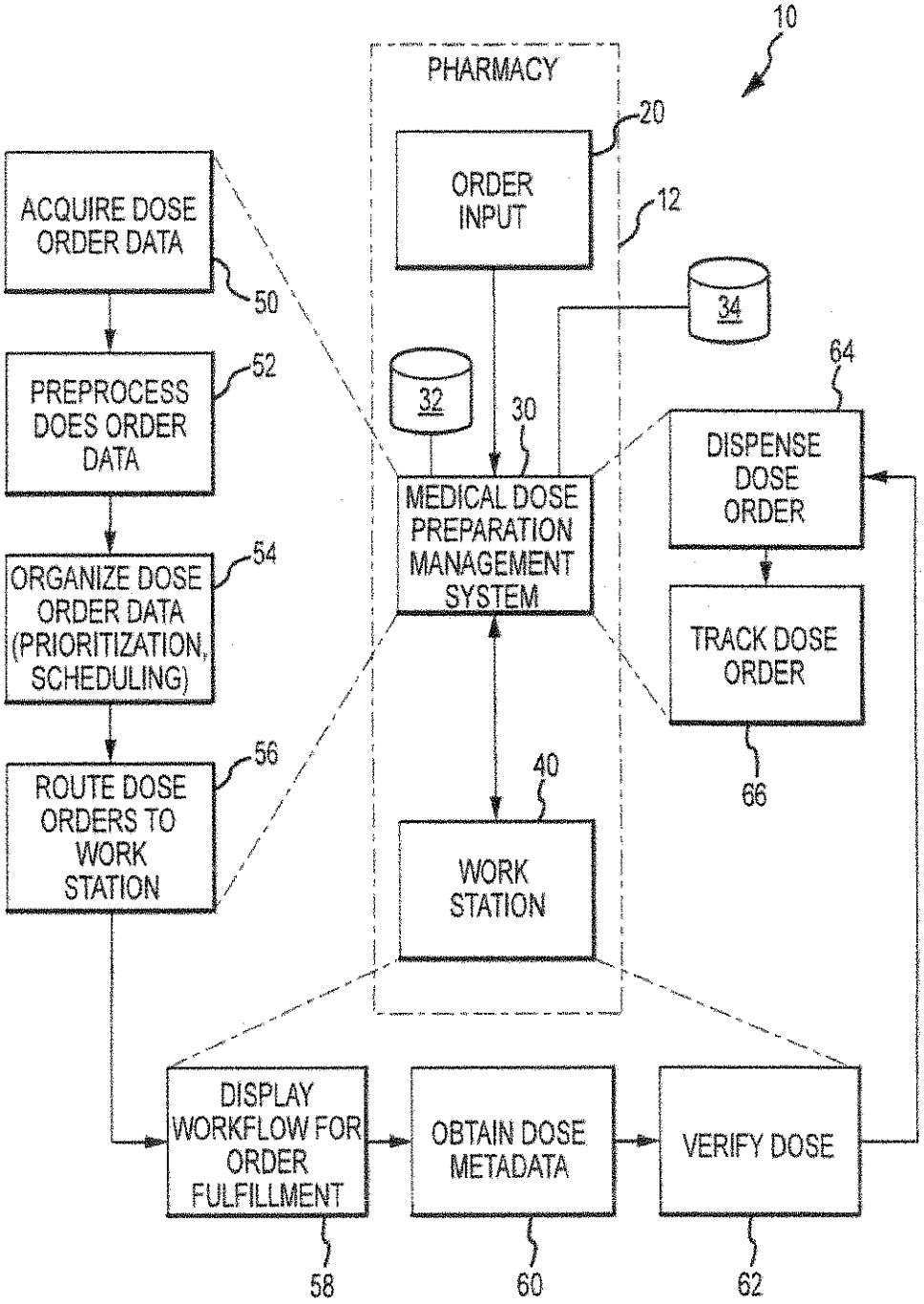

10
PHARMACY
20
ORDER INPUT
12
ACQUIRE DOSE ORDER DATA
50
34
64
PREPROCESS DOES ORDER DATA
52
32
30
DISPENSE DOSE ORDER
MEDICAL DOSE PREPARATION MANAGEMENT SYSTEM
ORGANIZE DOSE ORDER DATA (PRIORITIZATION, SCHEDULING)
54
TRACK DOSE ORDER
66
ROUTE DOSE ORDERS TO WORK STATION
56
40
WORK STATION
DISPLAY WORKFLOW FOR ORDER FULFILLMENT
OBTAIN DOSE METADATA
VERIFY DOSE
58
60
62

FIG.1

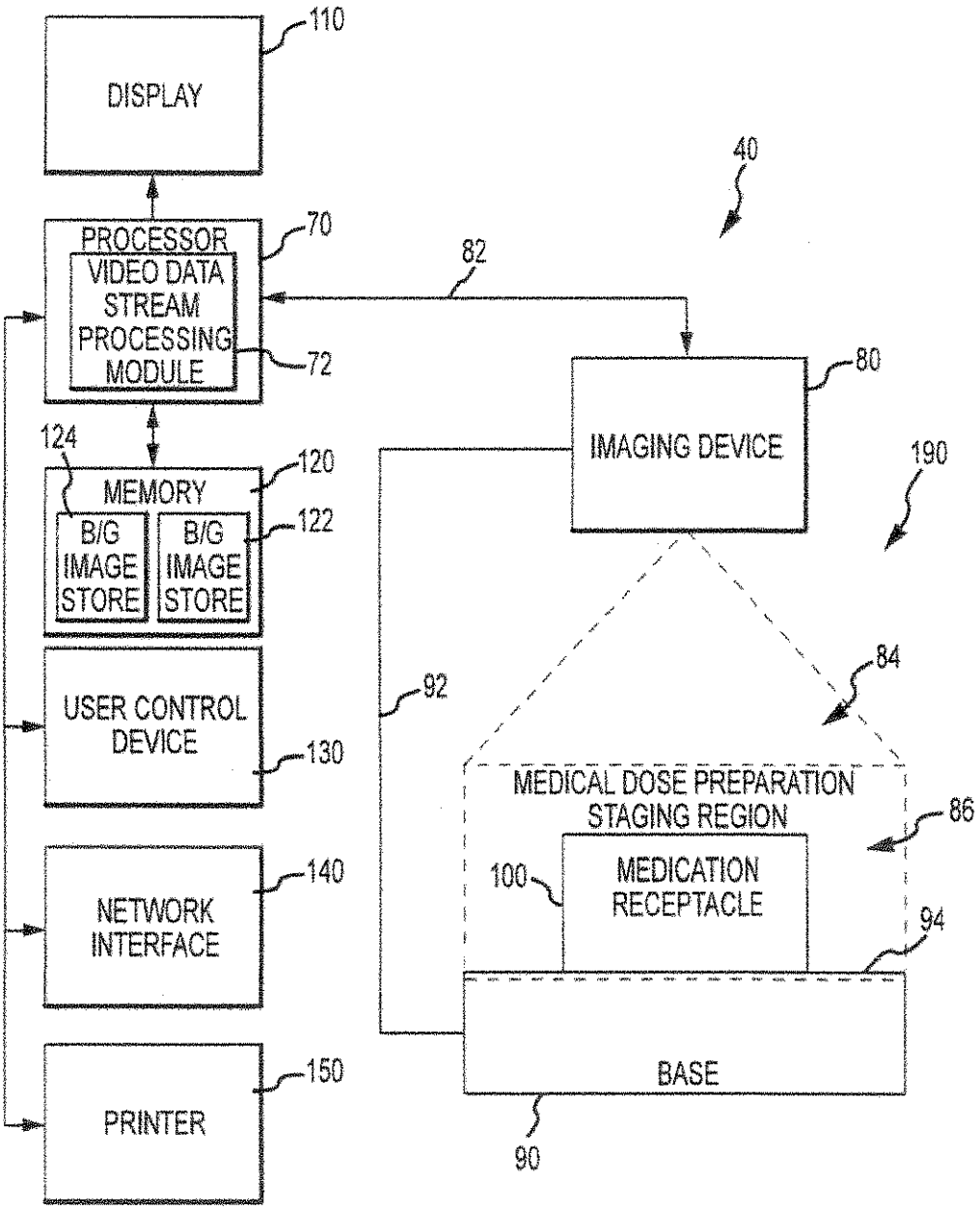

DISPLAY
110
40
PROCESSOR
VIDEO DATA STREAM PROCESSING MODULE
70
72
82
IMAGING DEVICE
80
190
124
MEMORY
B/G IMAGE STORE
B/G IMAGE STORE
120
122
USER CONTROL DEVICE
130
92
84
MEDICAL DOSE PREPARATION STAGING REGION
86
100
MEDICATION RECEPTACLE
94
NETWORK INTERFACE
140
BASE
90
PRINTER
150

FIG.2

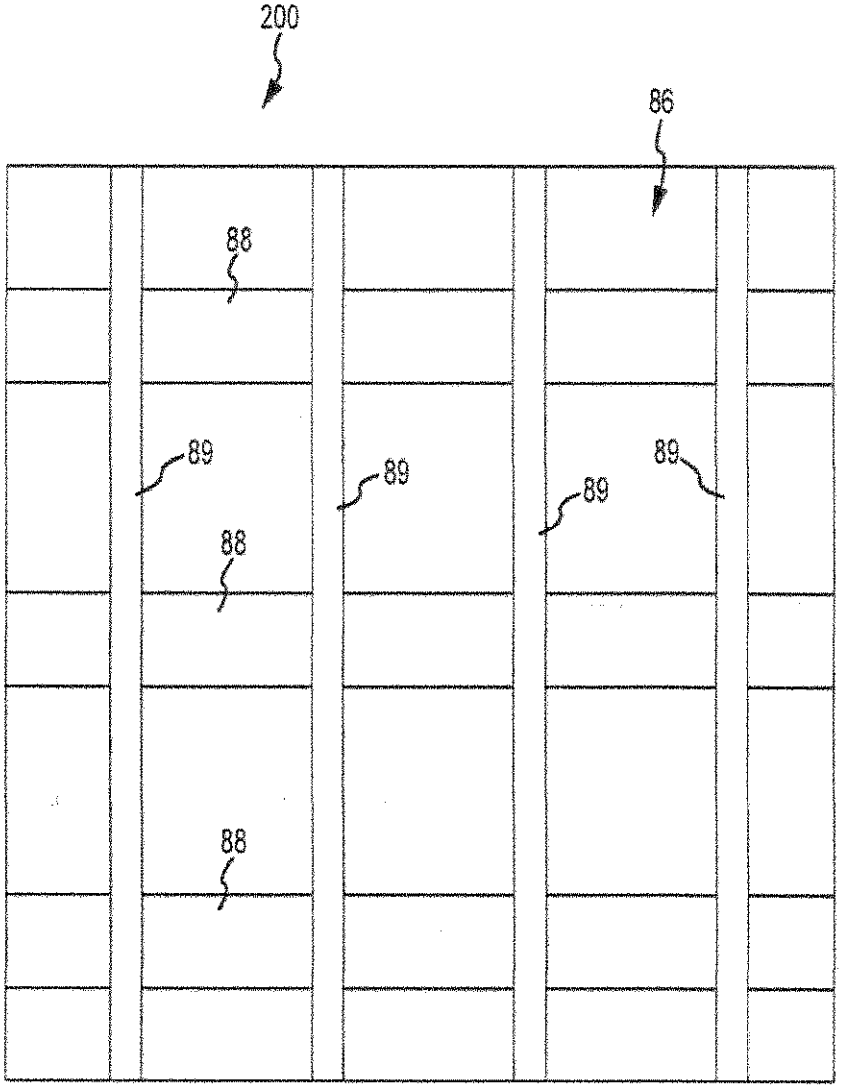


FIG.3

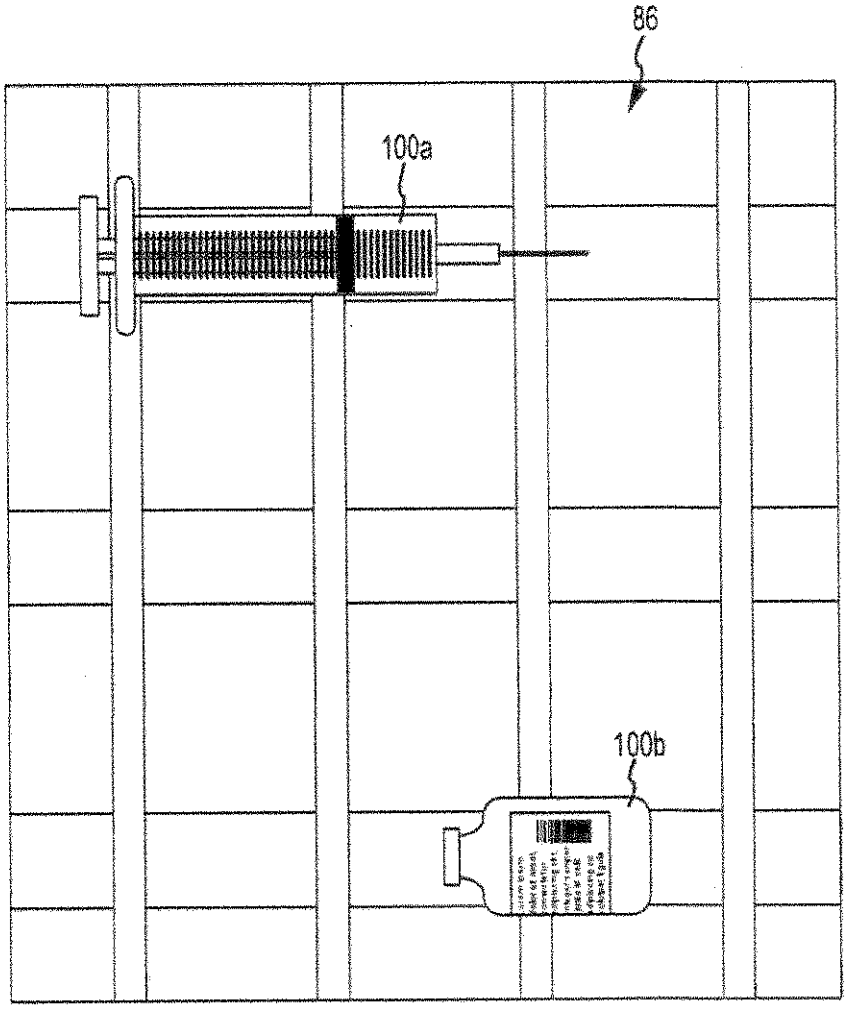


FIG.4

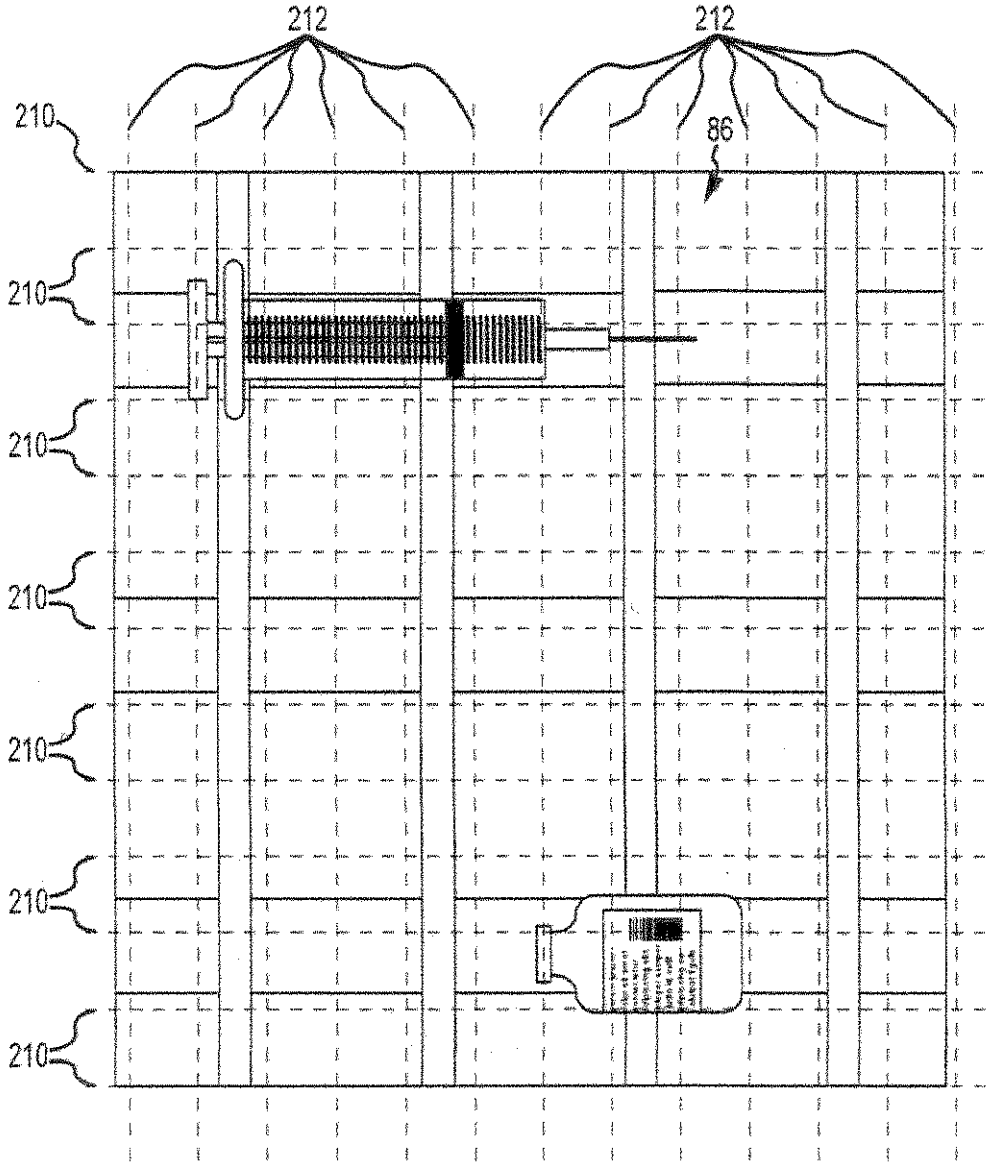


FIG.5

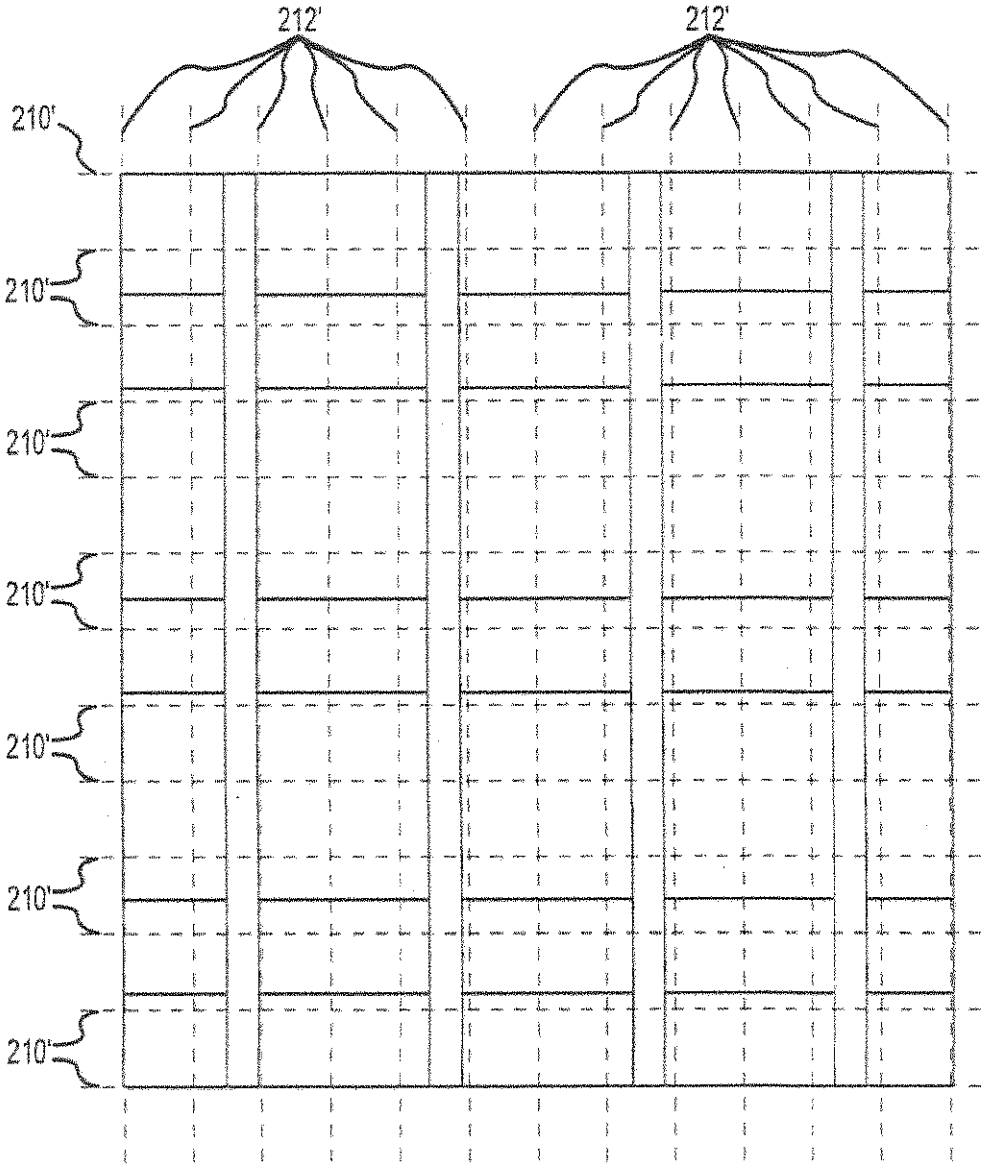


FIG.6

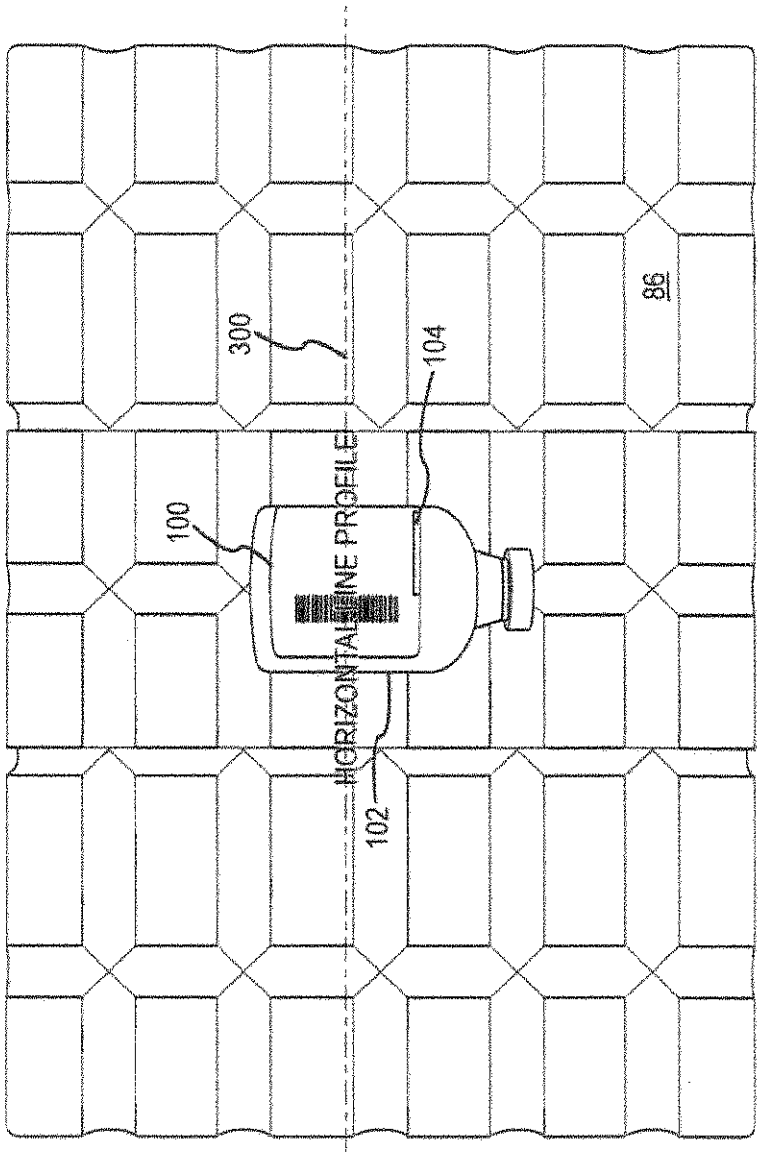


FIG.7

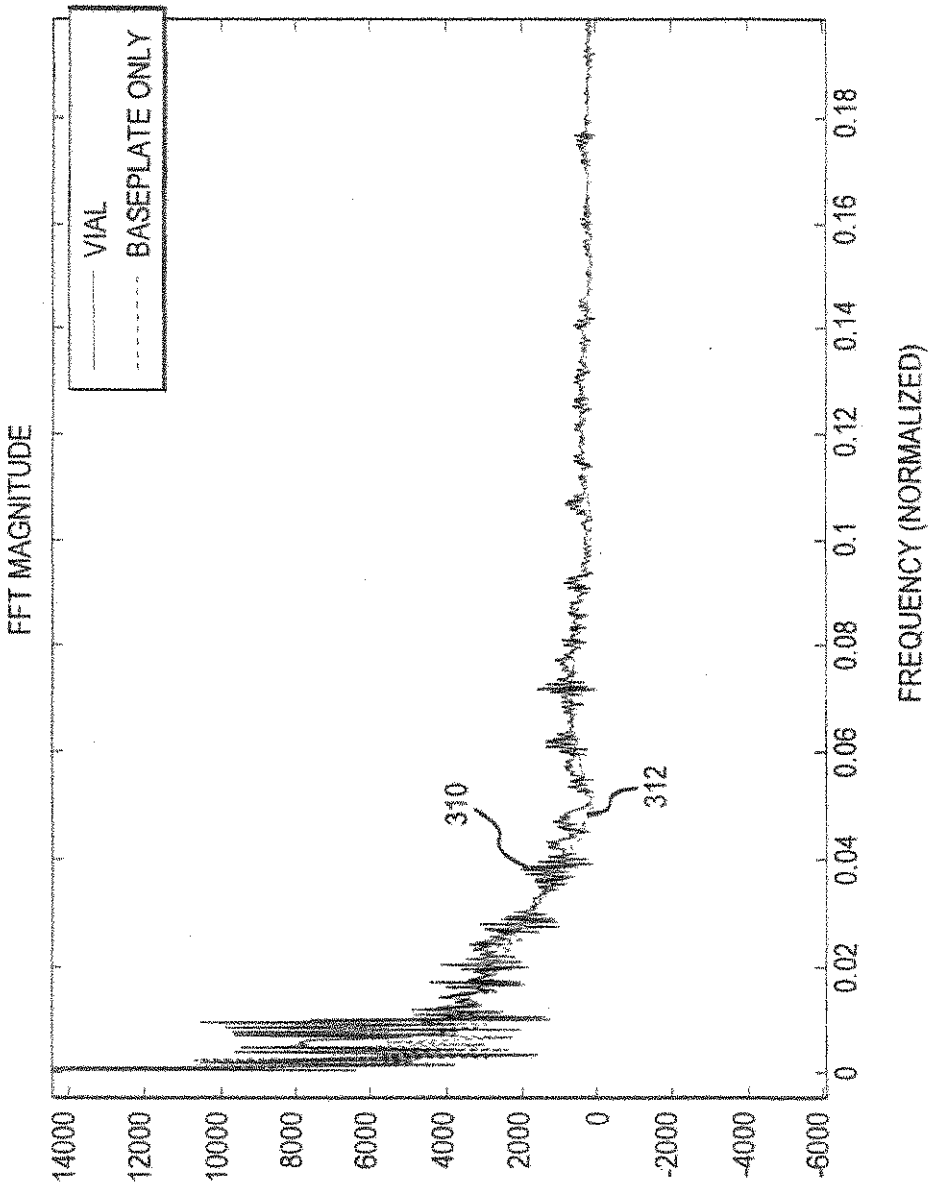

VIAL
BASEPLATE ONLY
FFT MAGNITUDE
FREQUENCY (NORMALIZED)
14000
12000
10000
8000
6000
4000
2000
0
-2000
-4000
-6000
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
310
312

FIG.8

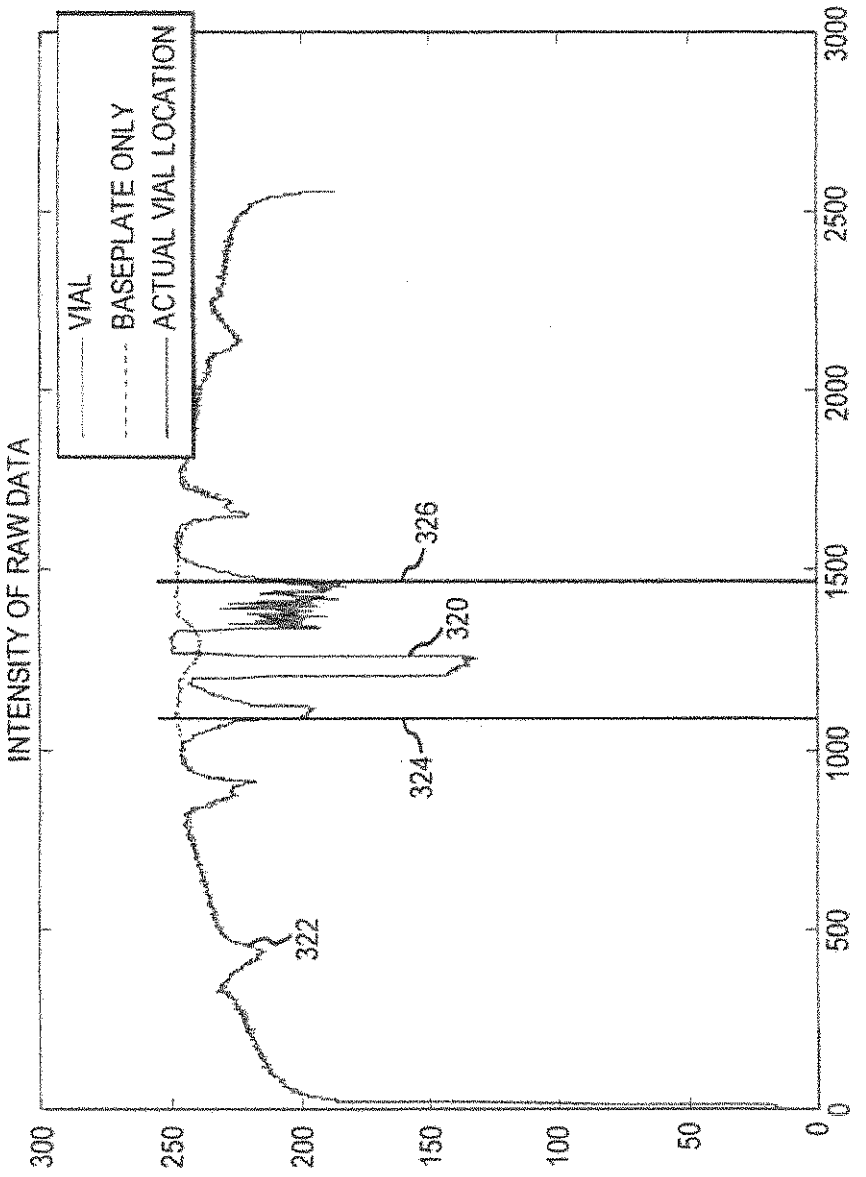

VIAL
BASEPLATE ONLY
ACTUAL VIAL LOCATION
INTENSITY OF RAW DATA
PIXEL LOCATION
322
324
320
326
300
250
200
150
100
50
0
0
500
1000
1500
2000
2500
3000

FIG.9

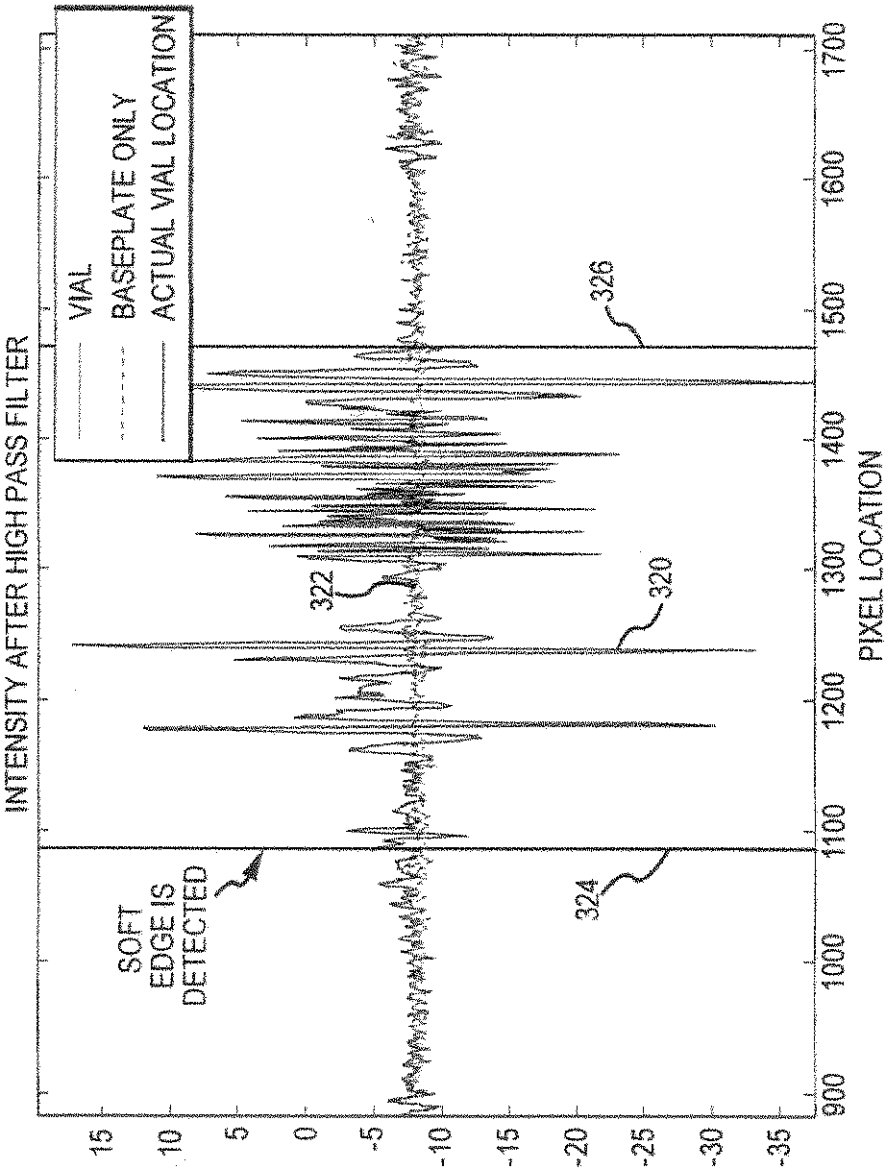

INTENSITY AFTER HIGH PASS FILTER
PIXEL LOCATION
VIAL
BASEPLATE ONLY
ACTUAL VIAL LOCATION
SOFT EDGE IS DETECTED
322
320
324
326
15
10
5
0
-5
-10
-15
-20
-25
-30
-35
900
1000
1100
1200
1300
1400
1500
1600
1700

FIG.10

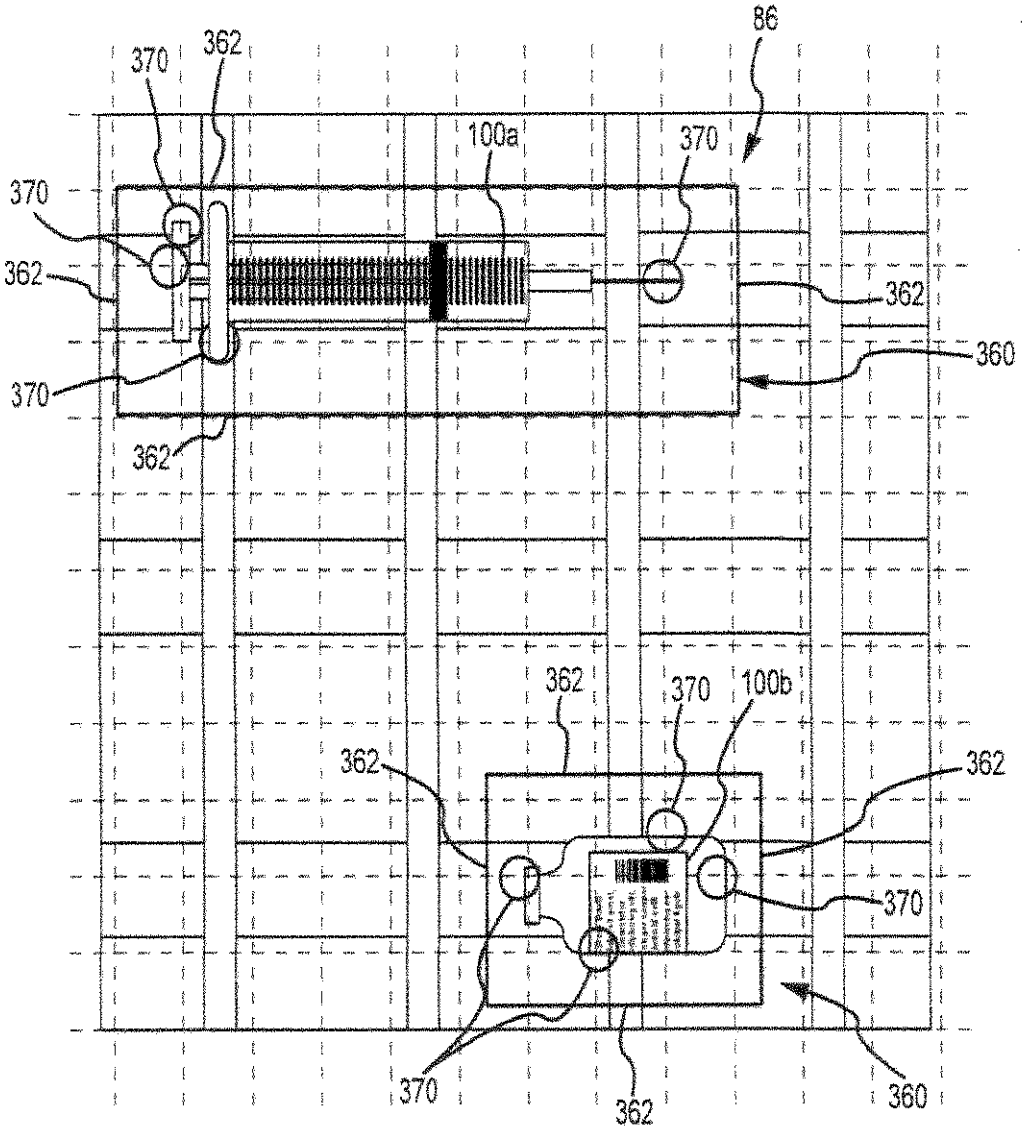

86
370
362
100a
370
370
362
362
360
370
362
362
370
100b
362
362
370
370
362
360

FIG.11

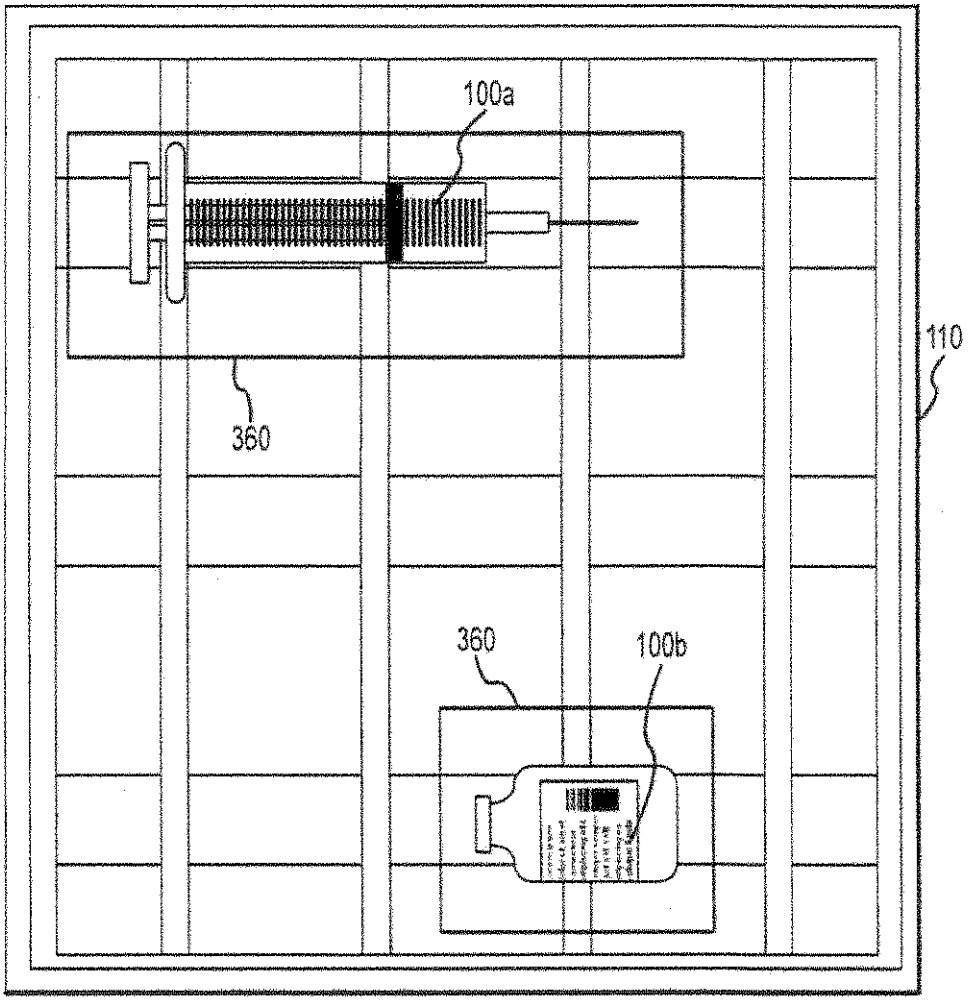


FIG.12

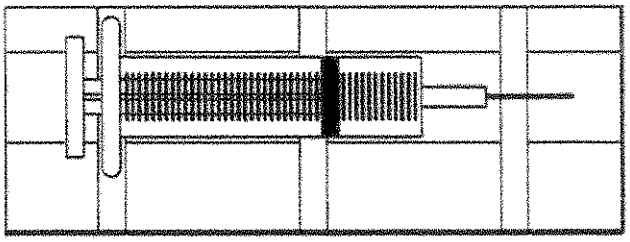


FIG.13

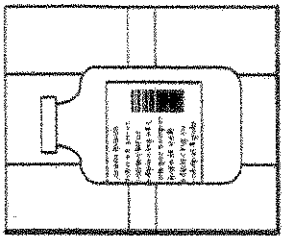


FIG.14