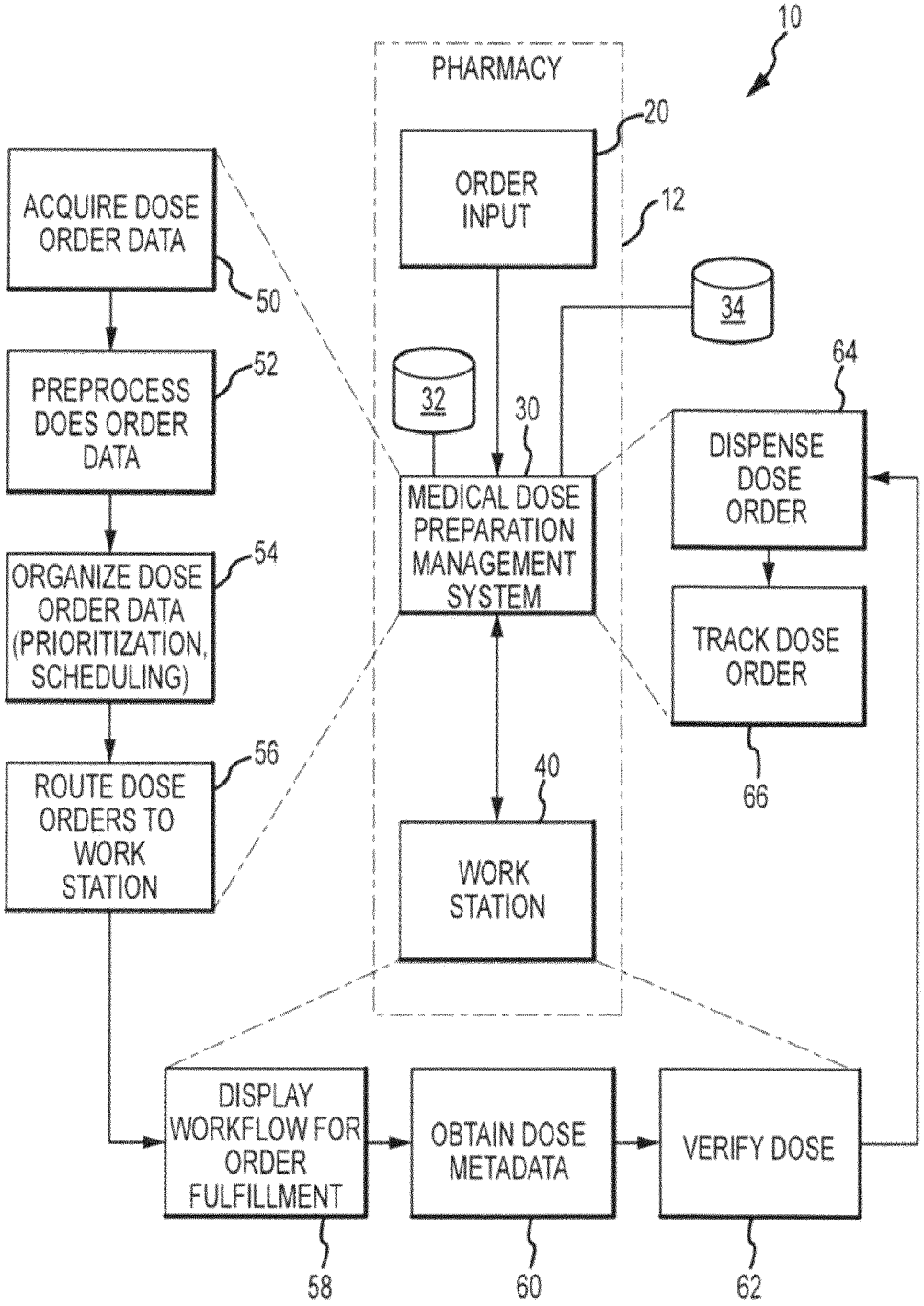

10
PHARMACY
20
ORDER INPUT
12
ACQUIRE DOSE ORDER DATA
50
34
32
30
64
PREPROCESS DOES ORDER DATA
52
DISPENSE DOSE ORDER
MEDICAL DOSE PREPARATION MANAGEMENT SYSTEM
54
ORGANIZE DOSE ORDER DATA (PRIORITIZATION, SCHEDULING)
TRACK DOSE ORDER
66
56
40
ROUTE DOSE ORDERS TO WORK STATION
WORK STATION
DISPLAY WORKFLOW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

FIG.1

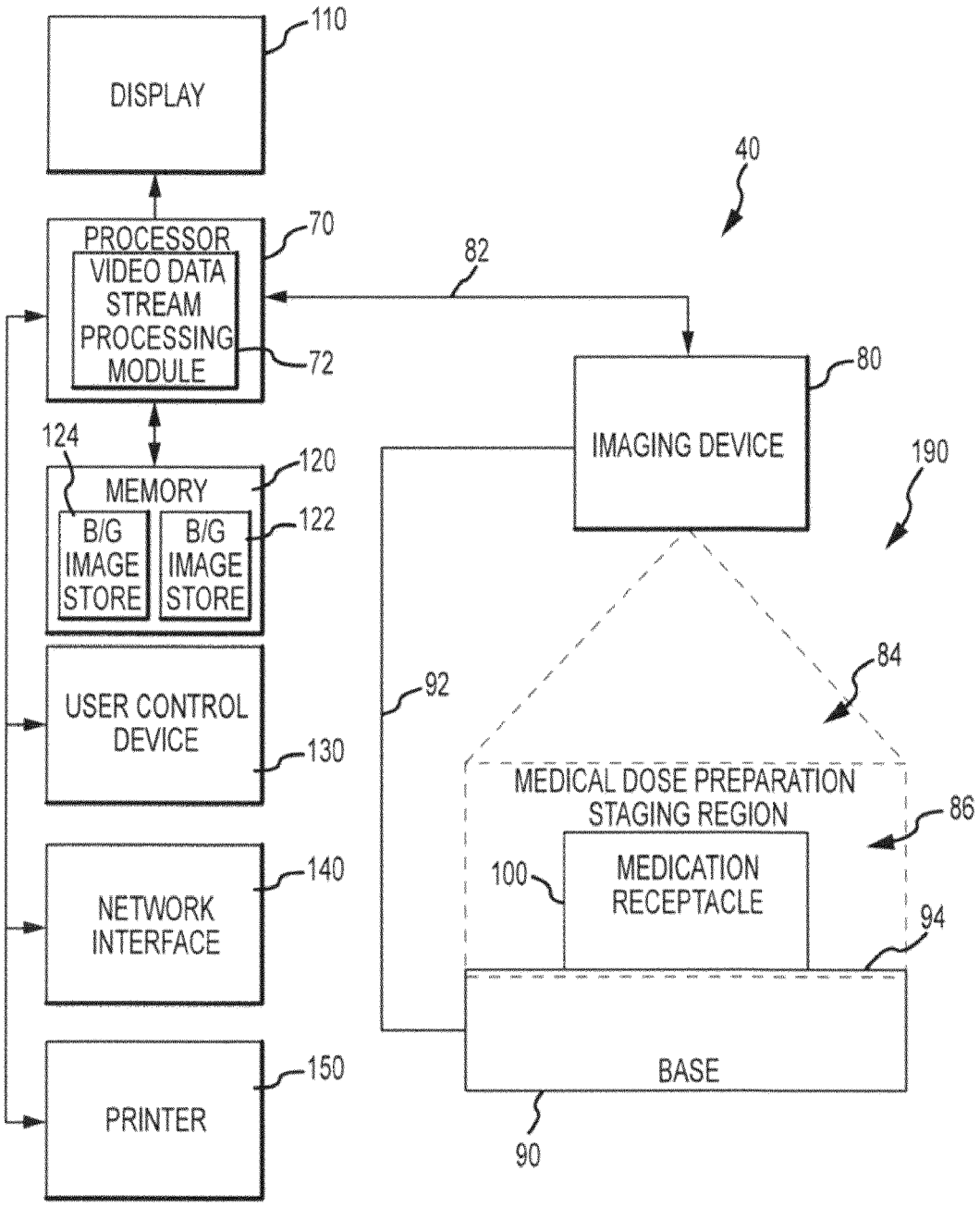

DISPLAY
110
40
PROCESSOR
VIDEO DATA STREAM PROCESSING MODULE
70
72
82
IMAGING DEVICE
80
190
124
MEMORY
120
B/G IMAGE STORE
B/G IMAGE STORE
122
USER CONTROL DEVICE
130
92
84
MEDICAL DOSE PREPARATION STAGING REGION
86
100
MEDICATION RECEPTACLE
94
NETWORK INTERFACE
140
BASE
PRINTER
150
90

FIG.2

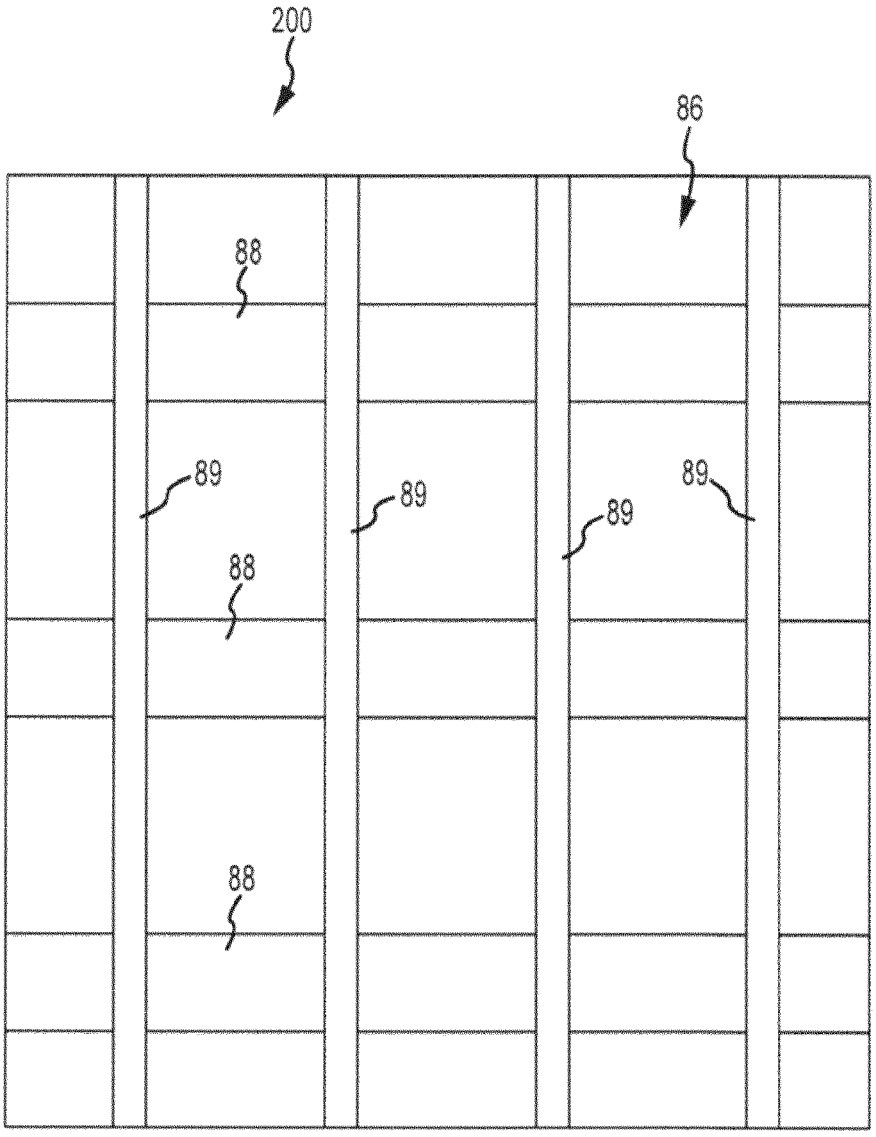


FIG.3

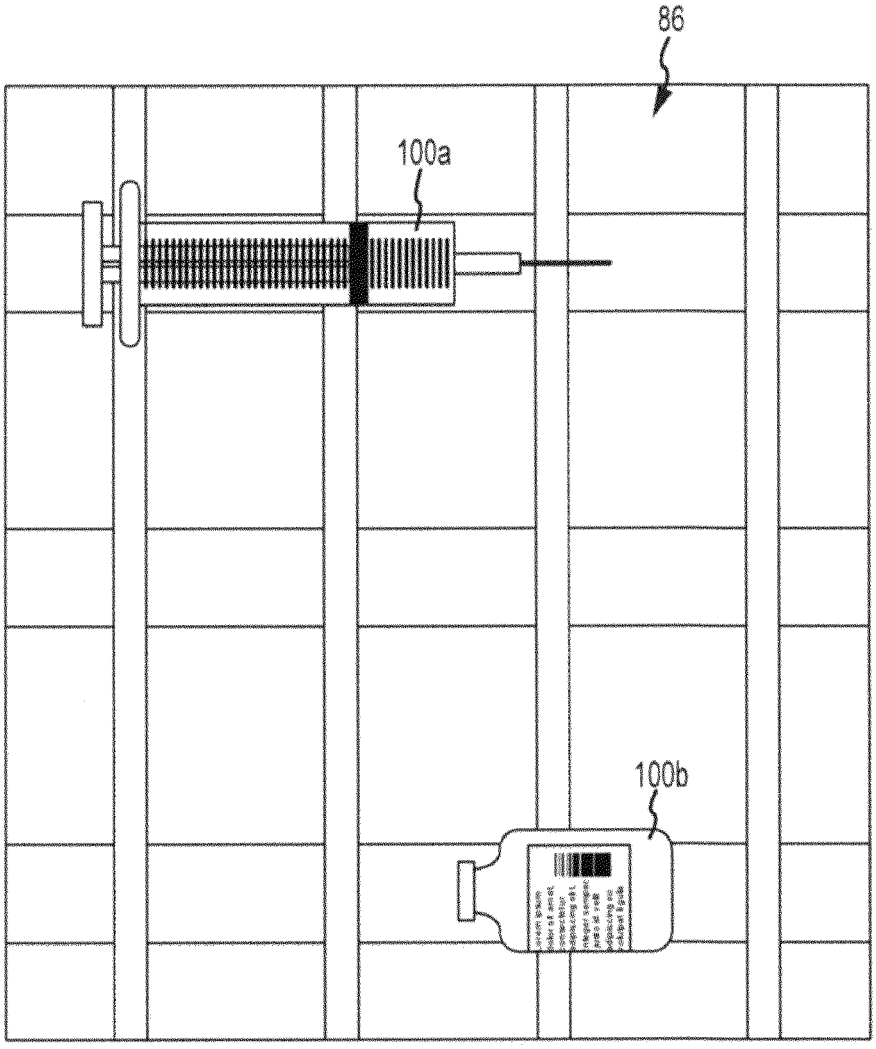


FIG.4

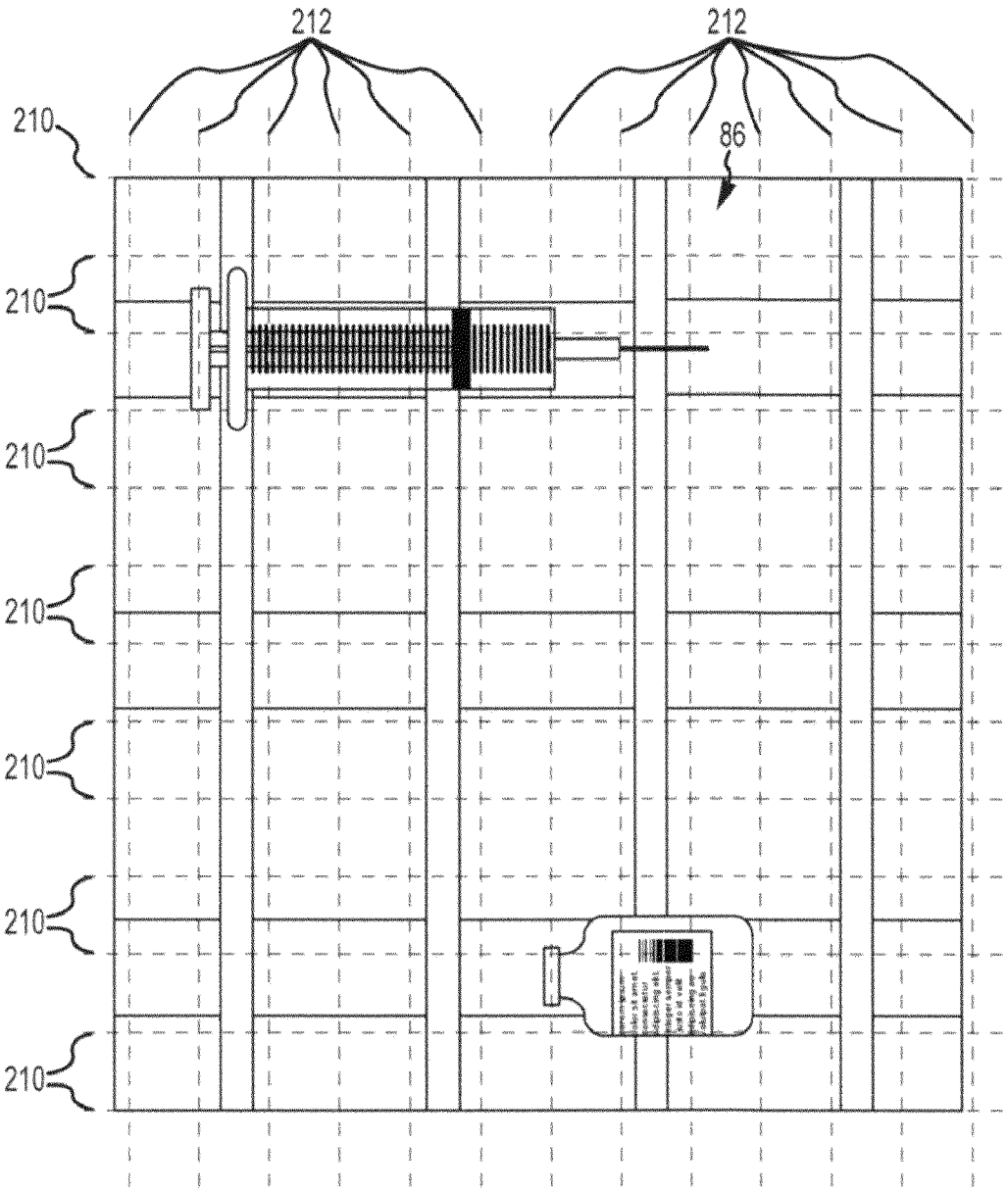


FIG.5

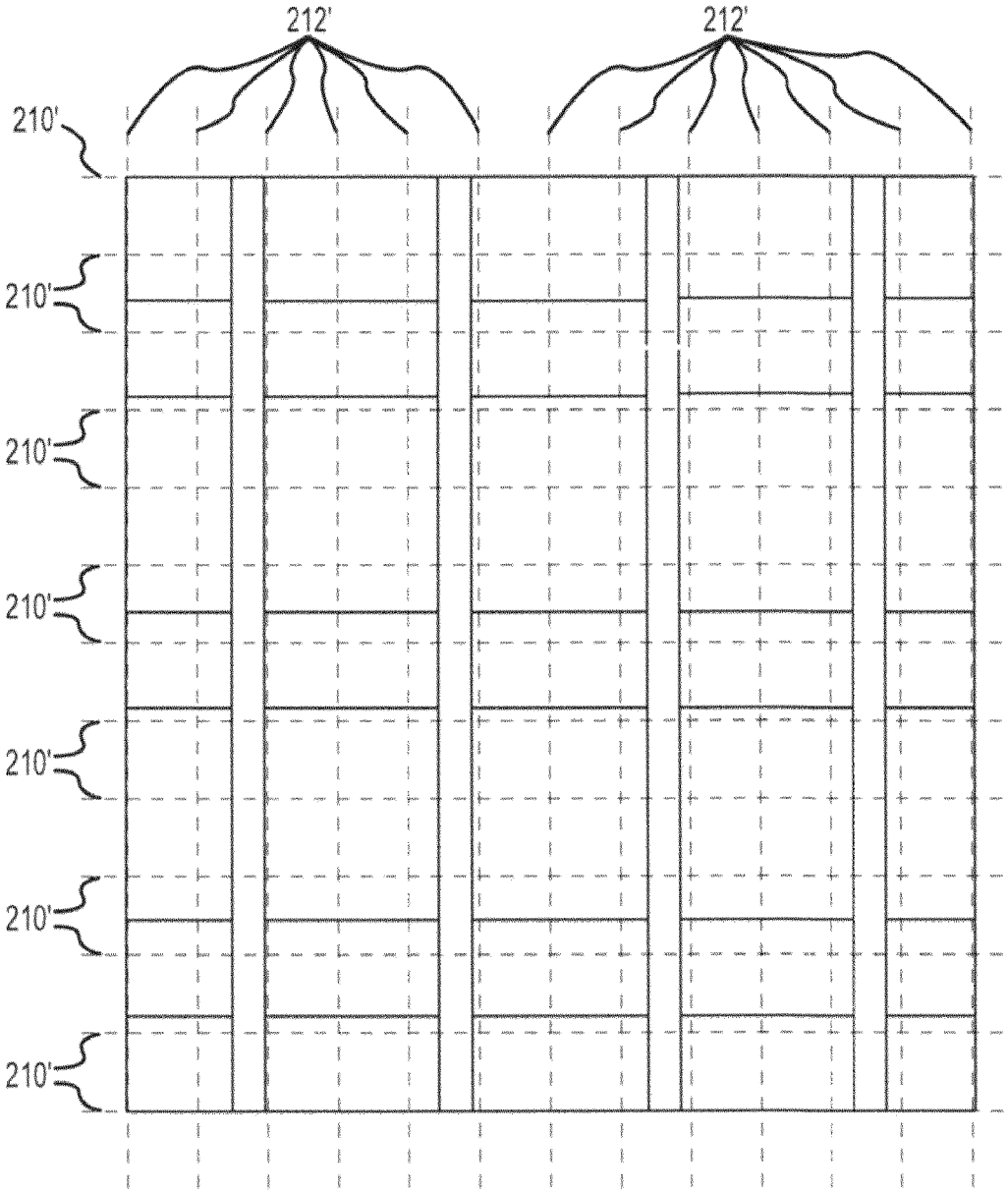


FIG.6

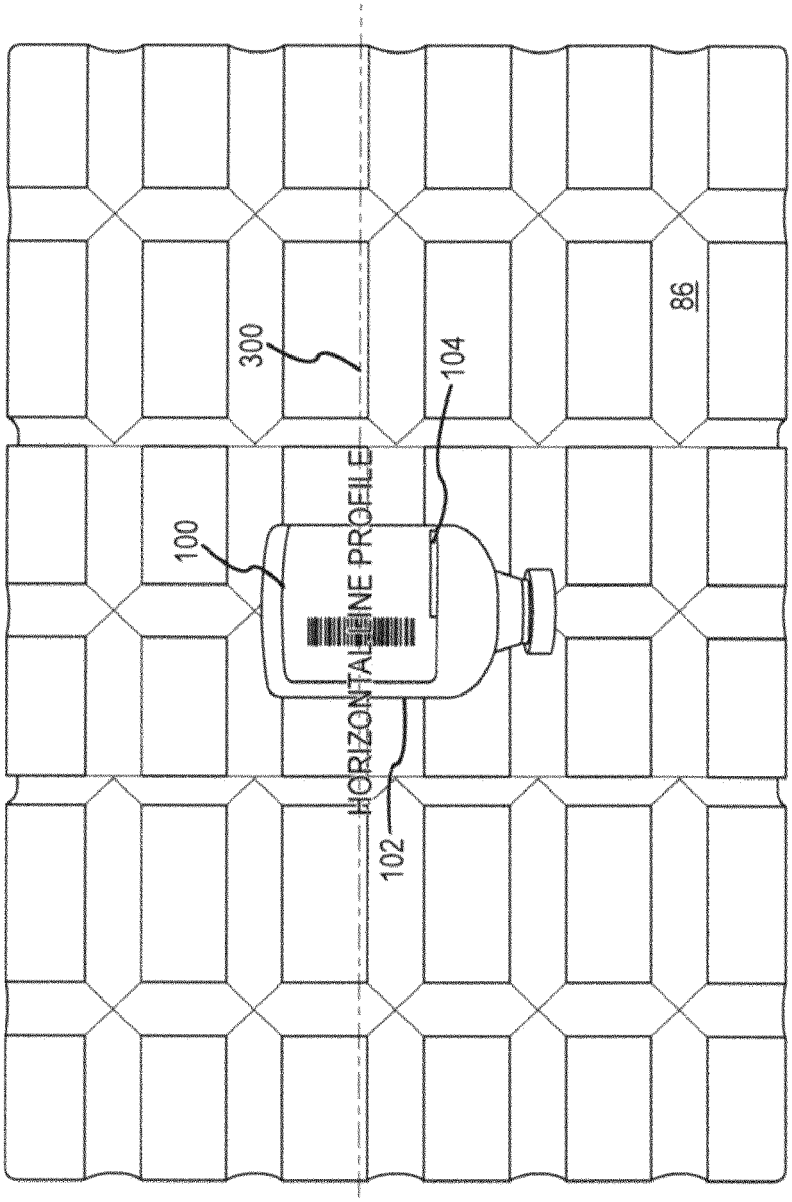


FIG.7

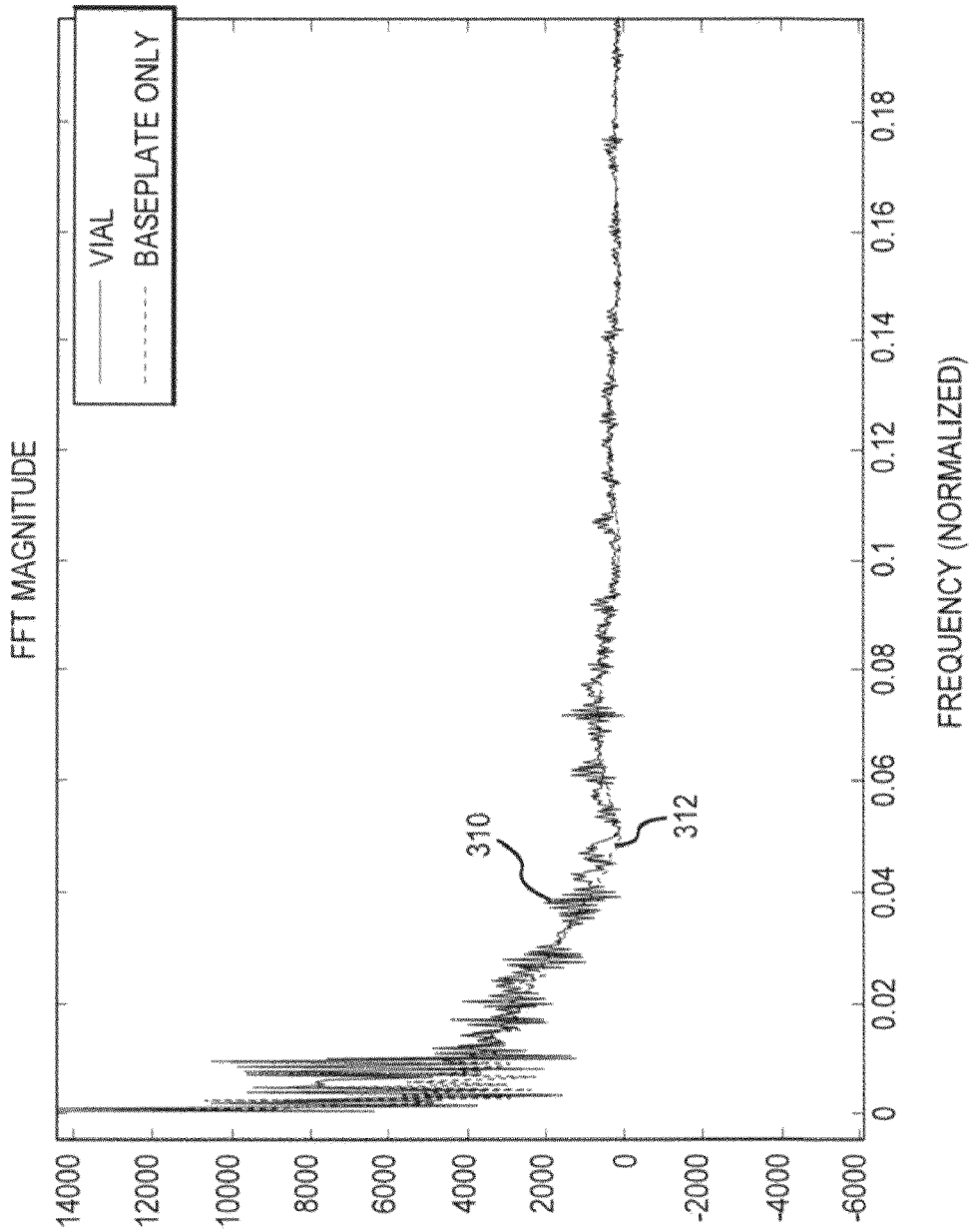

VIAL
BASEPLATE ONLY
FFT MAGNITUDE
FREQUENCY (NORMALIZED)
14000
12000
10000
8000
6000
4000
2000
0
-2000
-4000
-6000
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
310
312

FIG.8

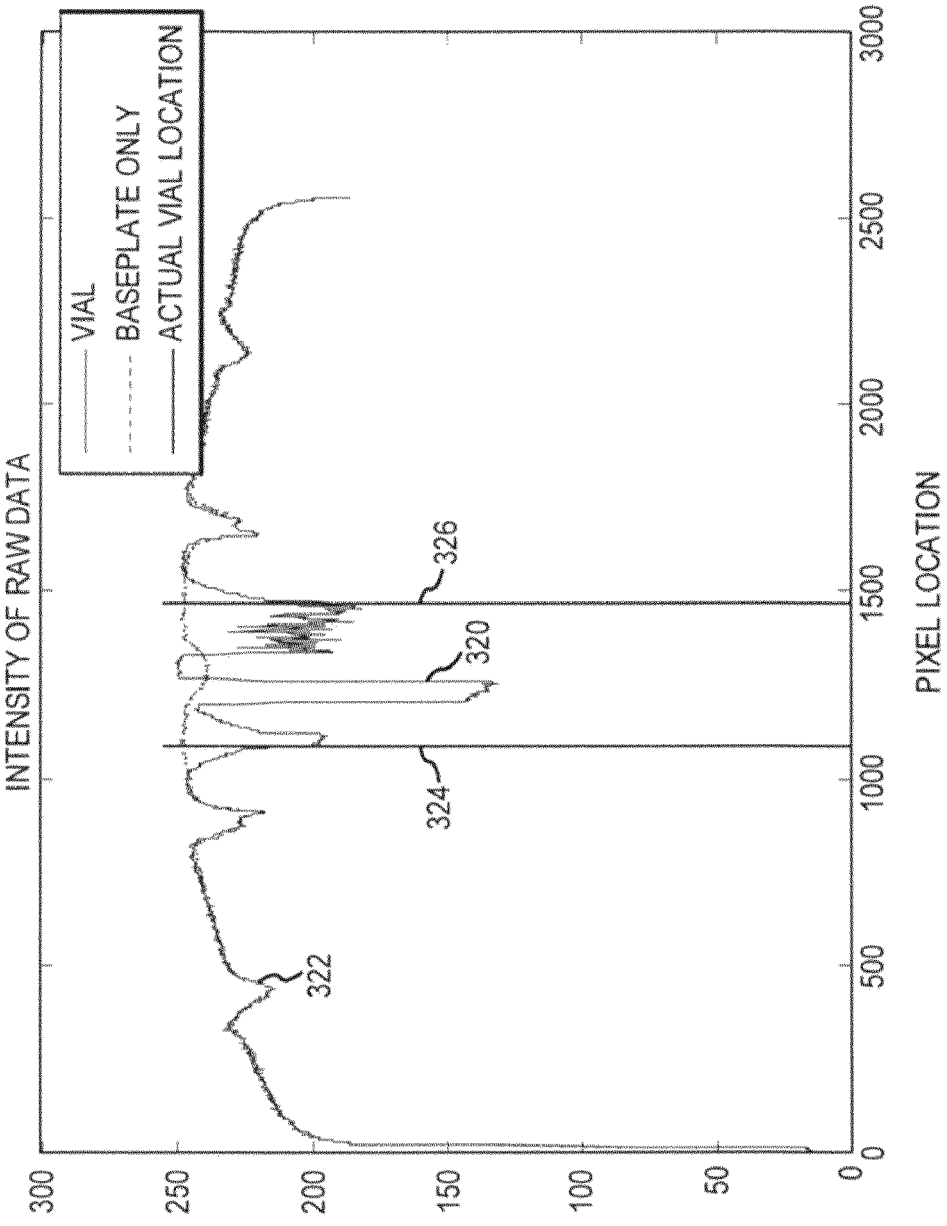

VIAL
BASEPLATE ONLY
ACTUAL VIAL LOCATION
INTENSITY OF RAW DATA
PIXEL LOCATION
322
324
320
326
0
50
100
150
200
250
300
500
1000
1500
2000
2500
3000

FIG.9

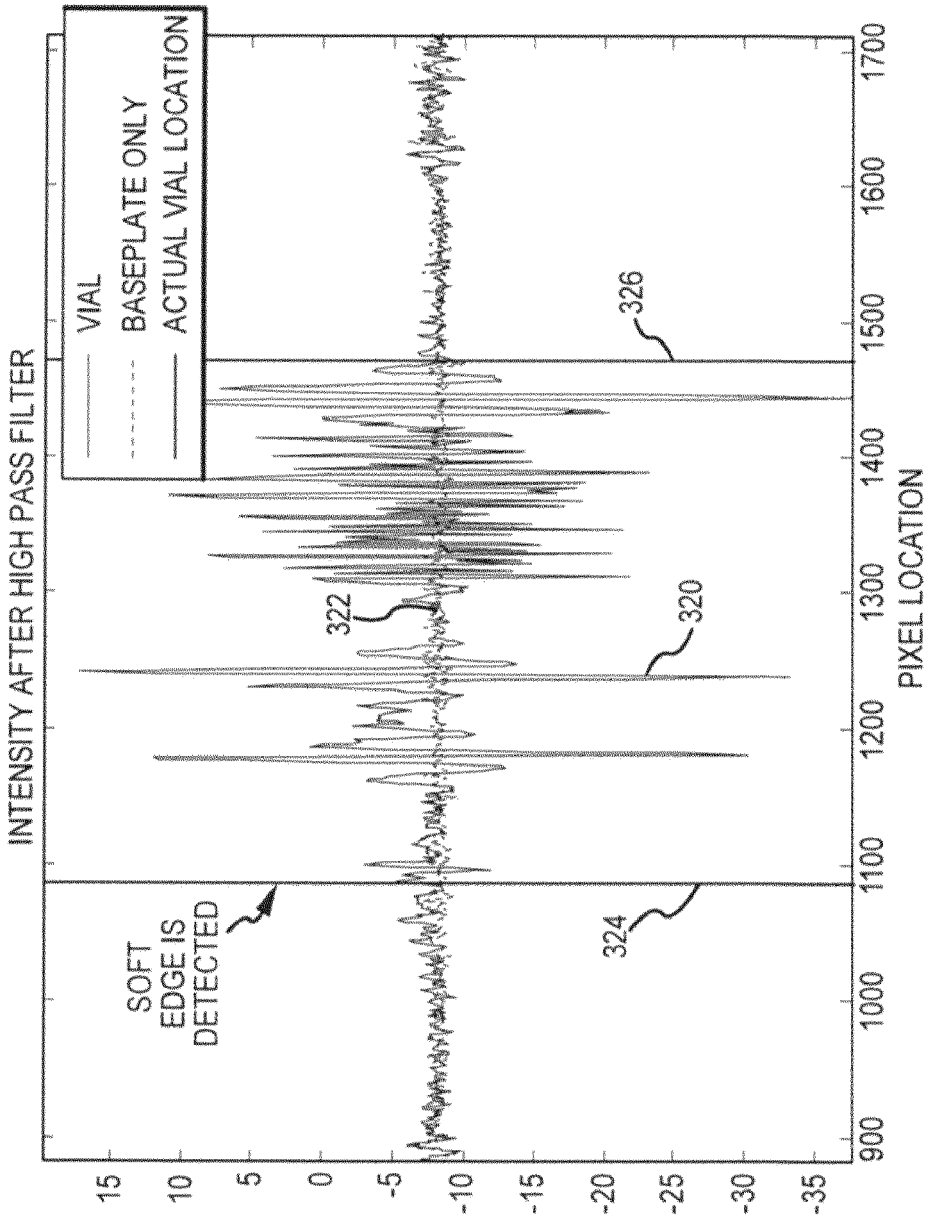

INTENSITY AFTER HIGH PASS FILTER
PIXEL LOCATION
VIAL
BASEPLATE ONLY
ACTUAL VIAL LOCATION
SOFT EDGE IS DETECTED
320
322
324
326
15
10
5
0
-5
-10
-15
-20
-25
-30
-35
900
1000
1100
1200
1300
1400
1500
1600
1700

FIG.10

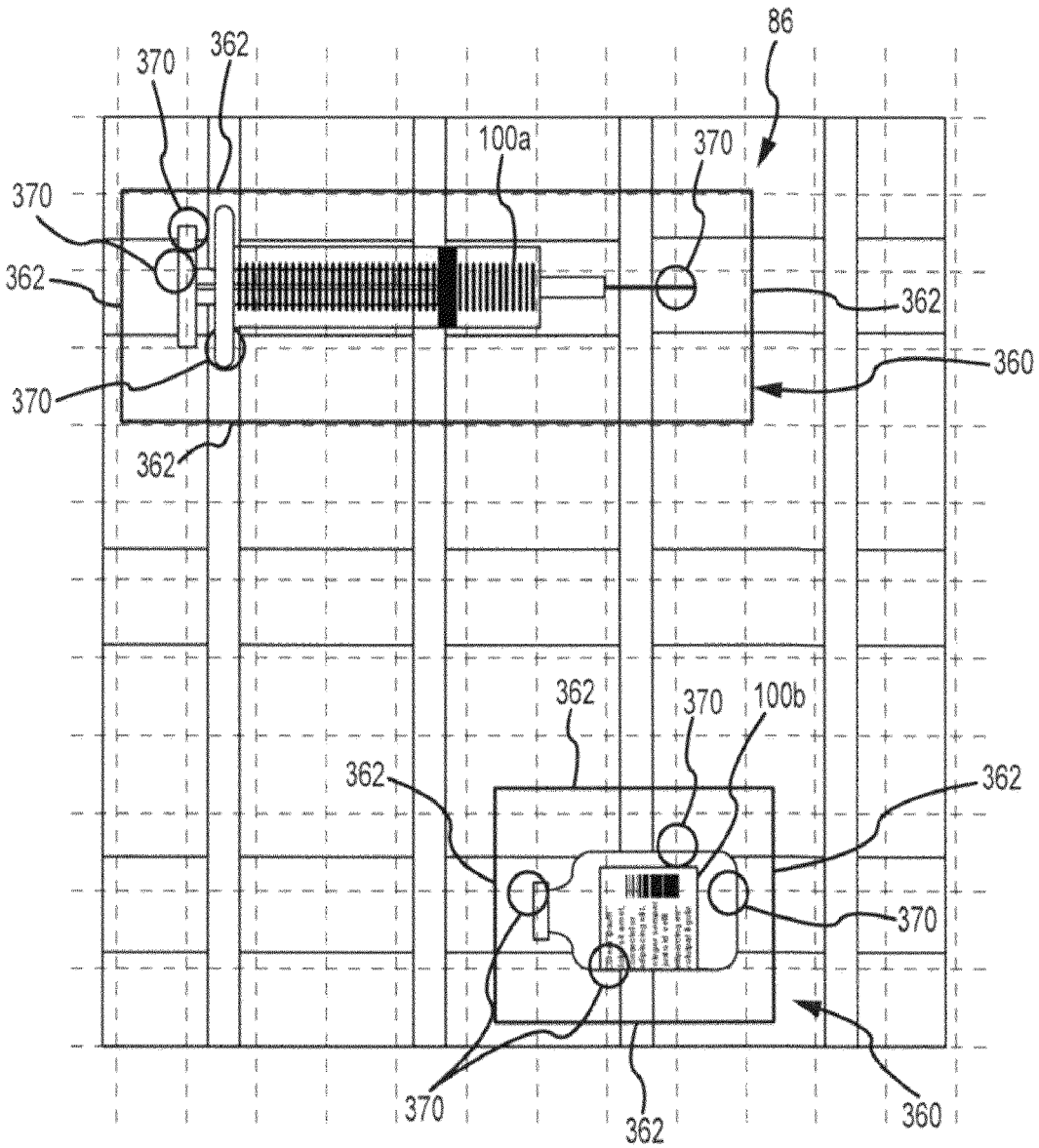

86
370
362
100a
370
370
362
362
360
370
362
362
370
100b
362
362
370
370
362
360

FIG.11

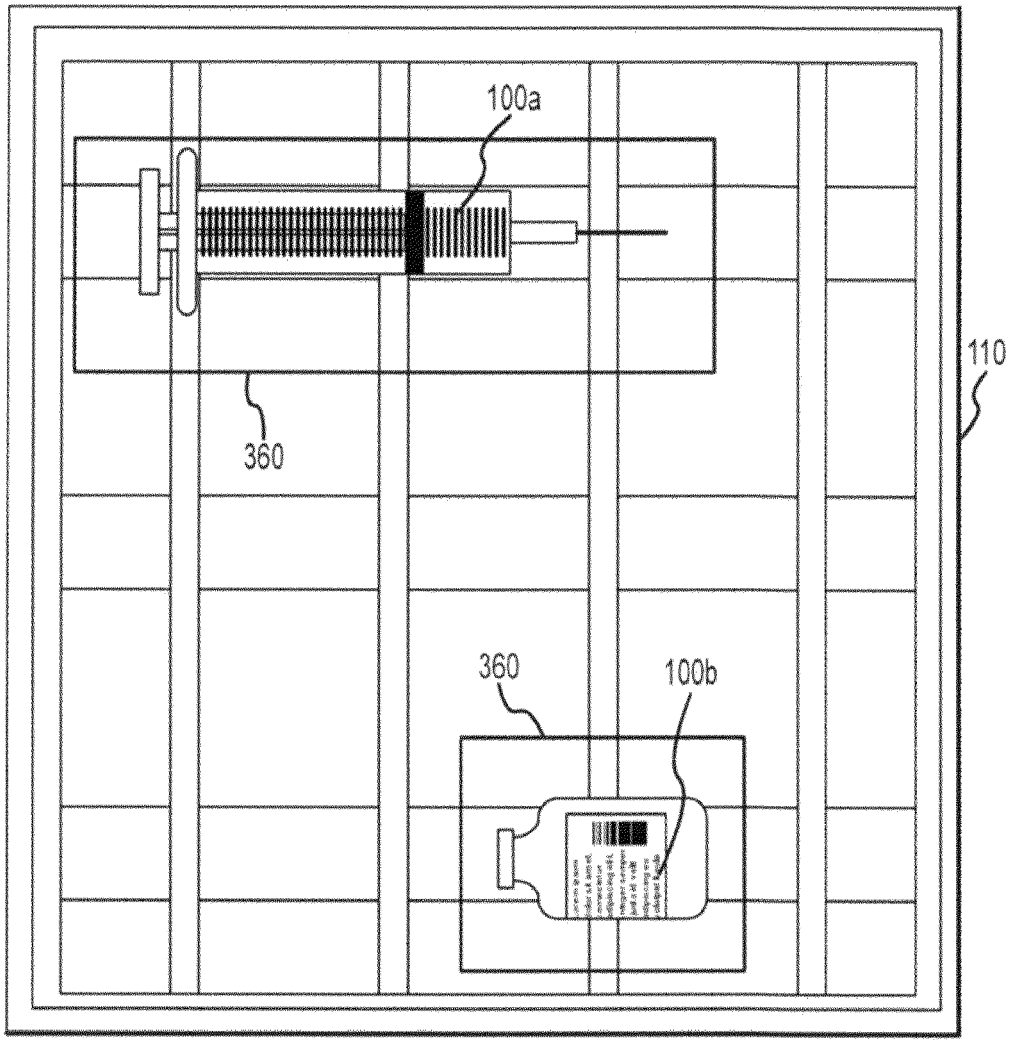


FIG.12

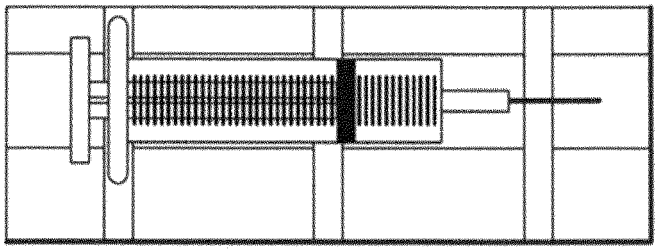


FIG.13

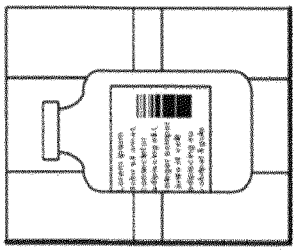


FIG.14