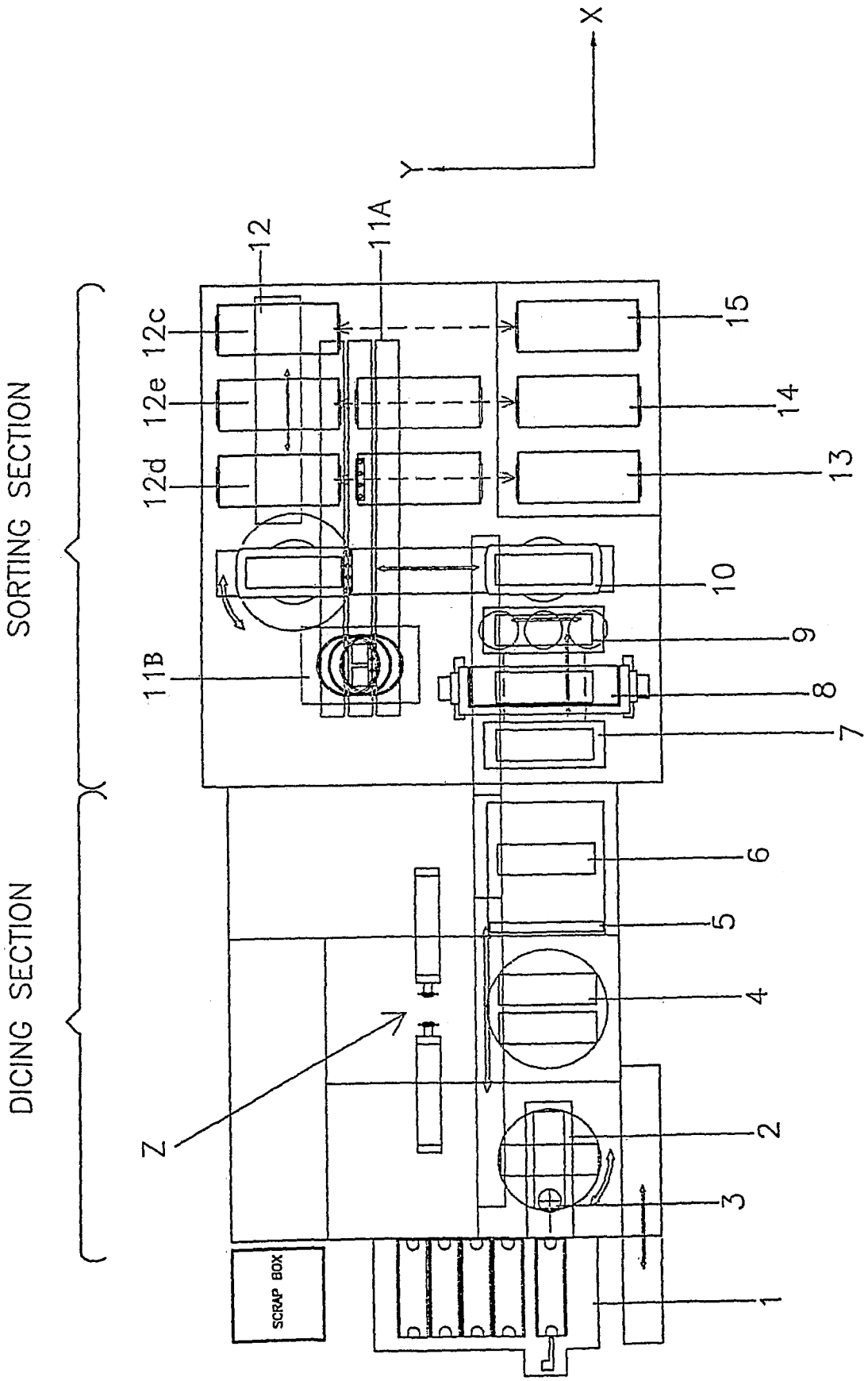

X
Y
Z
SORTING SECTION
DICING SECTION
SCRAP BOX
1
2
3
4
5
6
7
8
9
10
11A
11B
12
12c
12e
12d
13
14
15

Figure 1(a)

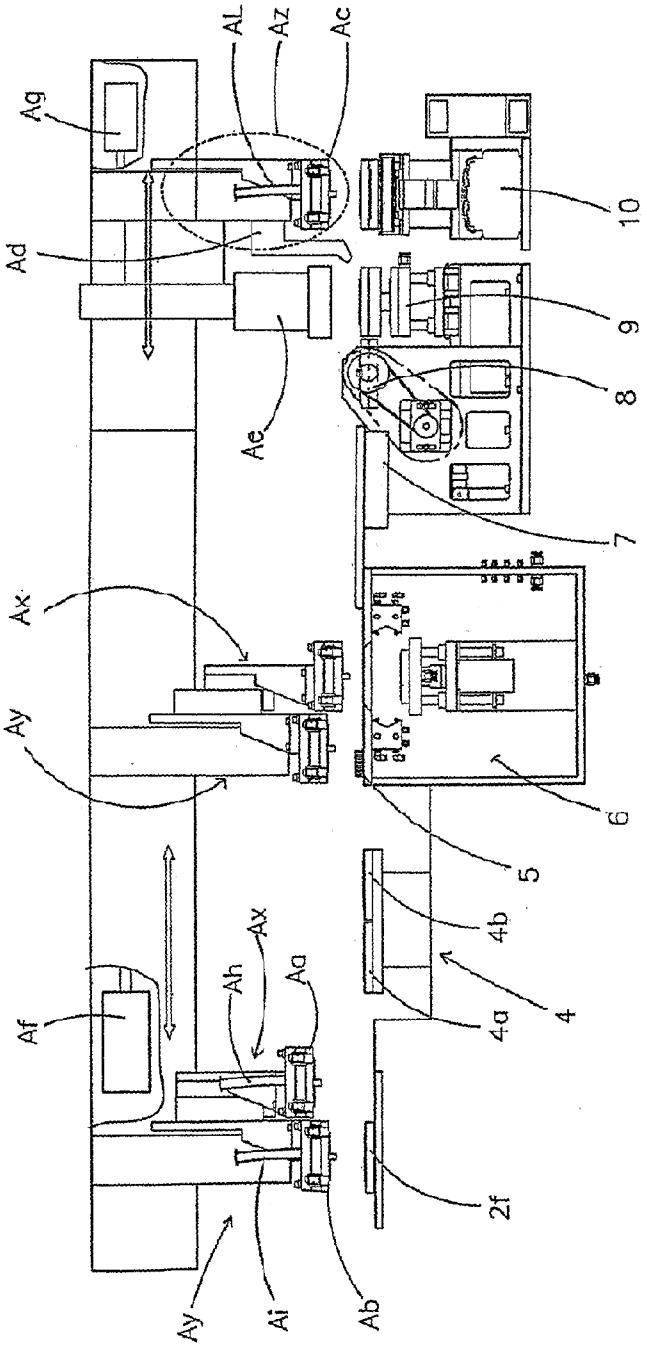


Figure 1(b)

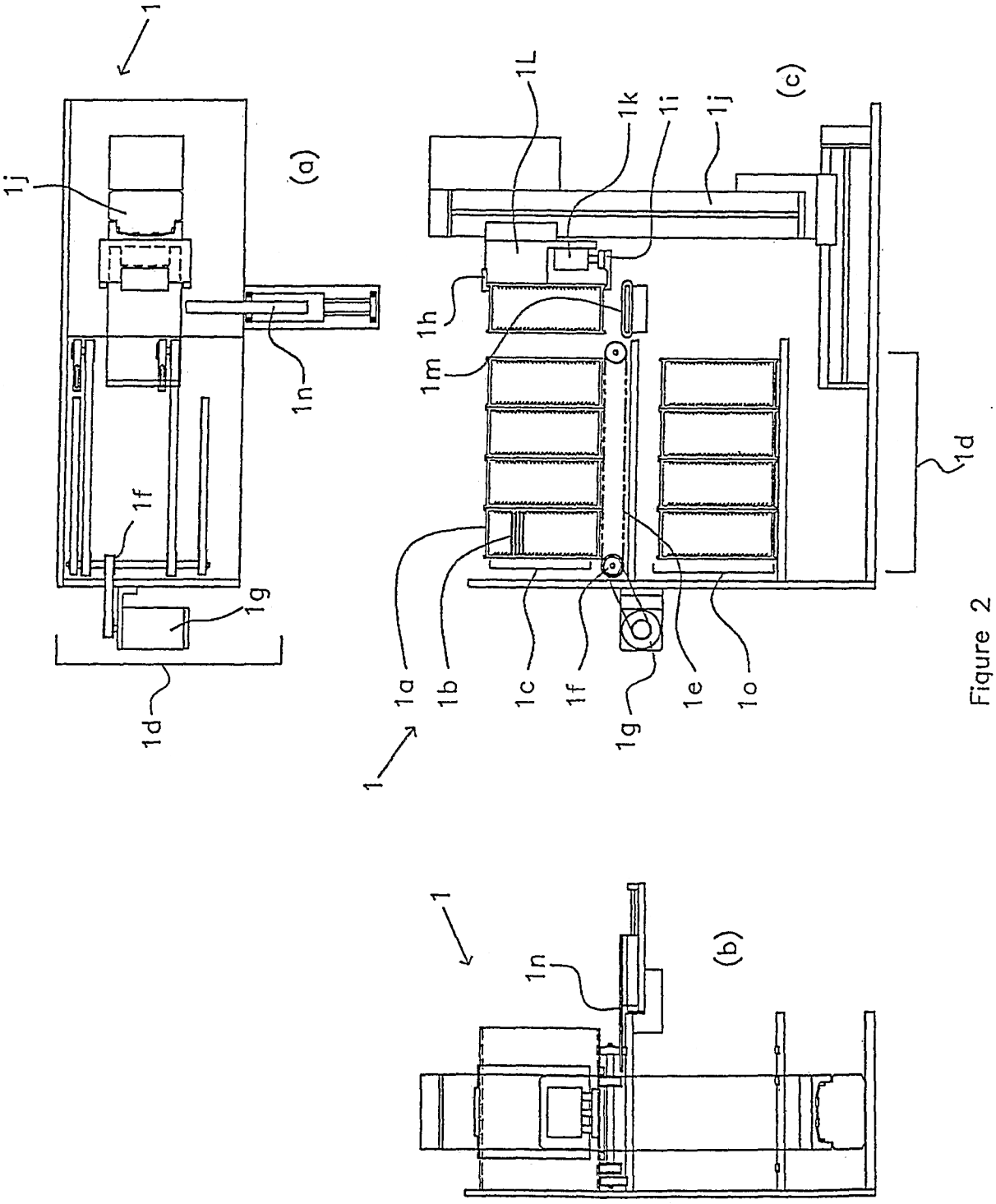


Figure 2

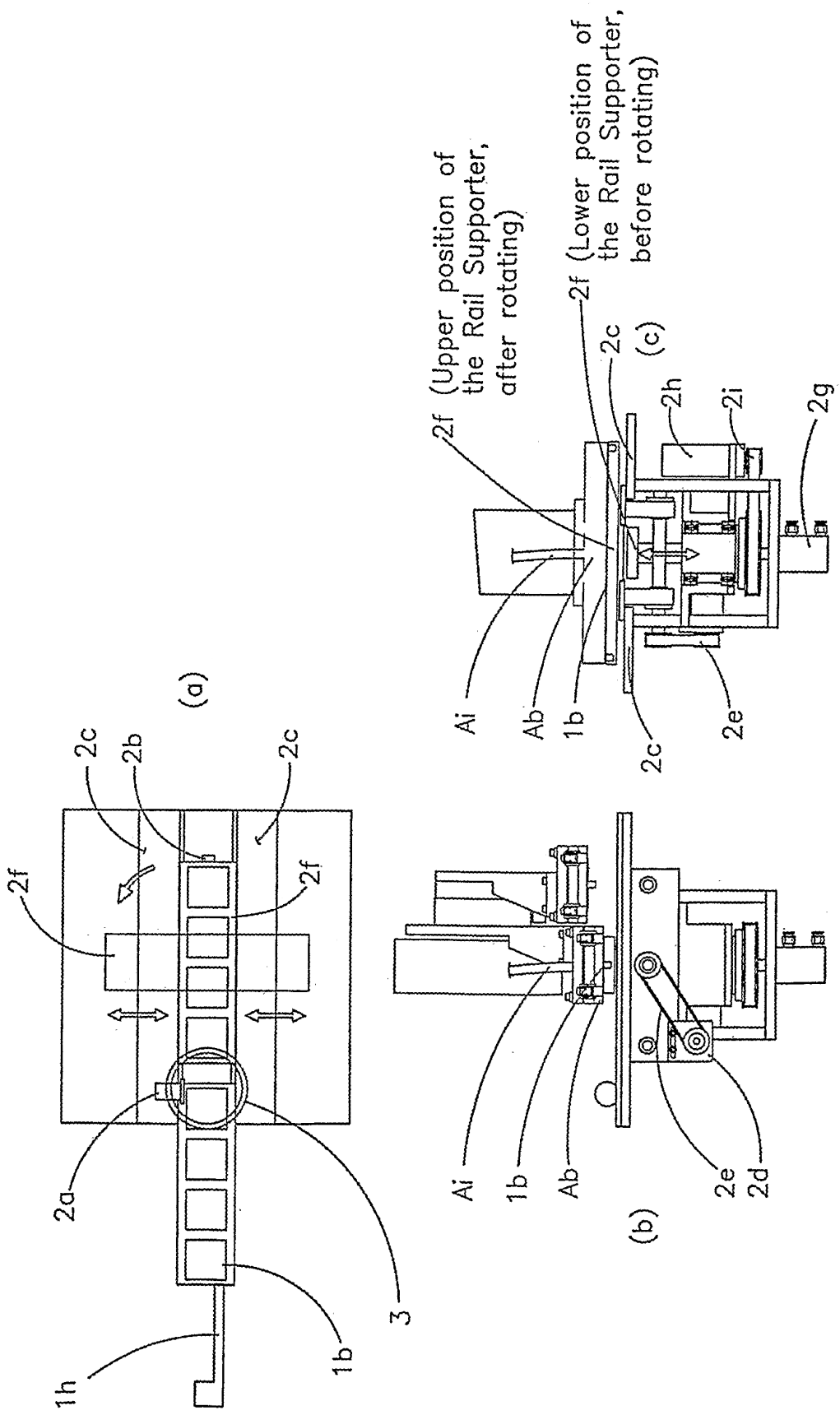

(a)
2c
2b
2c
2f
2f
2a
3
1h
1b
(b)
Ai
1b
Ab
2e
2d
(c)
2f (Upper position of the Rail Supporter, after rotating)
2f (Lower position of the Rail Supporter, before rotating)
2c
2h
2i
2g
Ai
Ab
1b
2c
2e

Figure 3

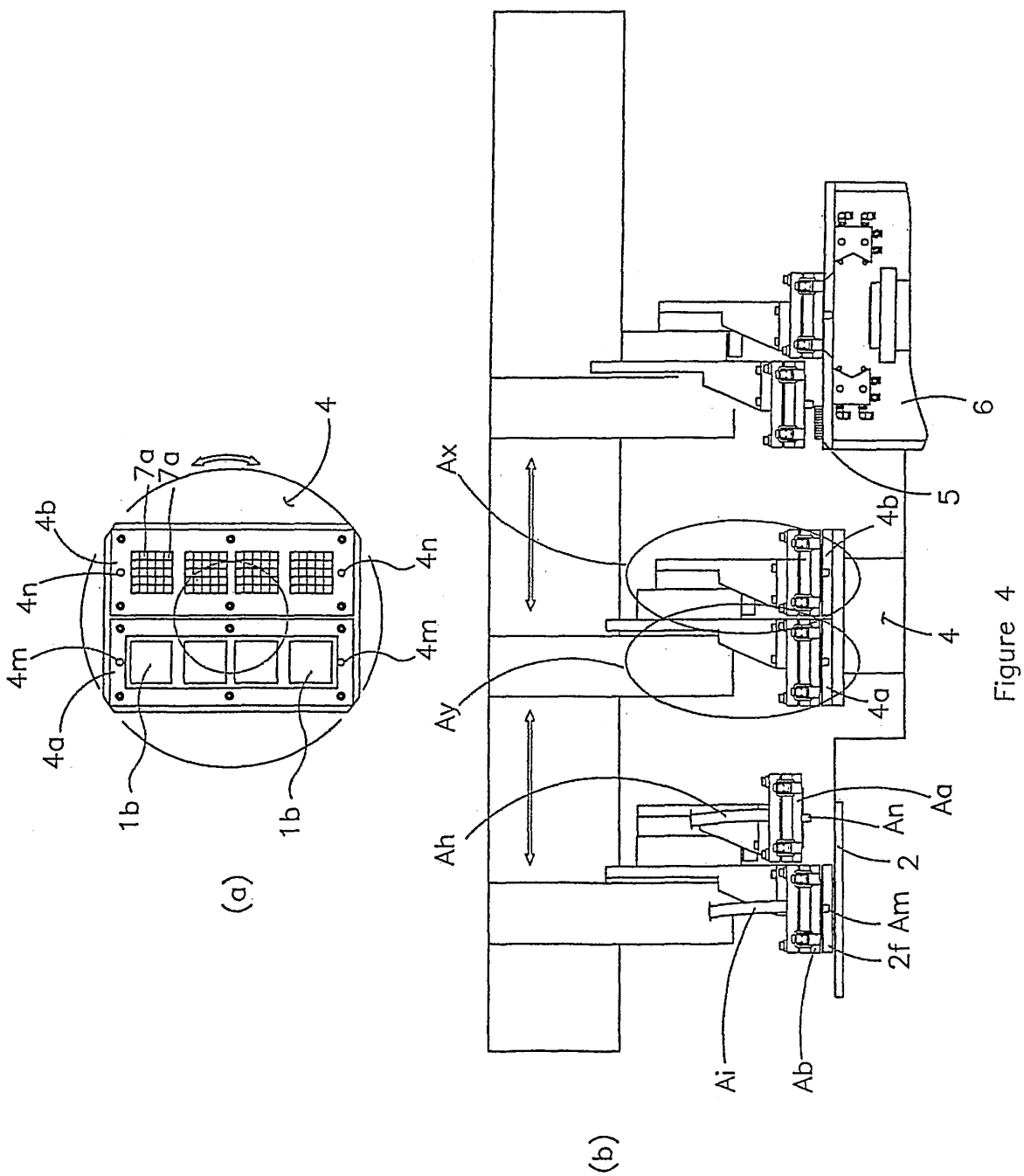


Figure 4

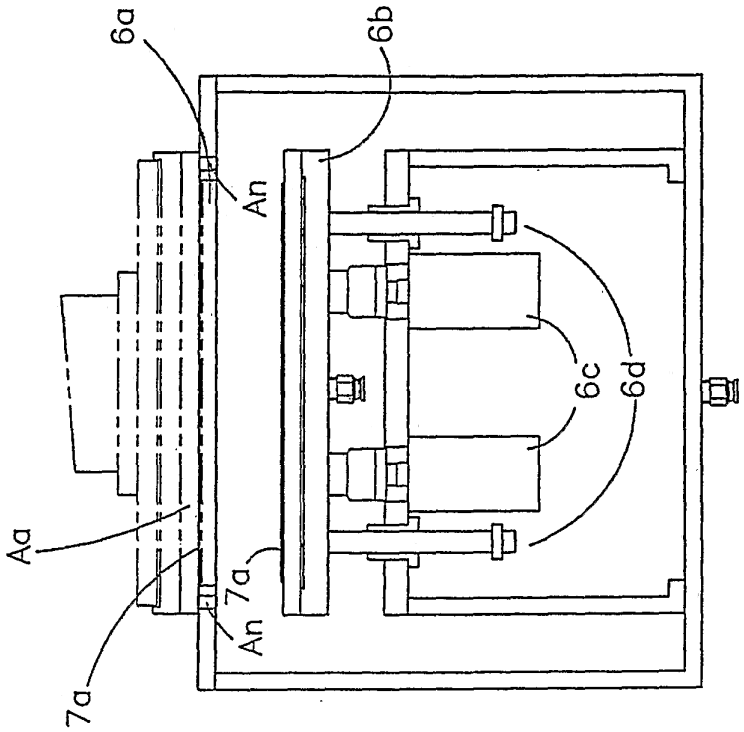


Figure 6

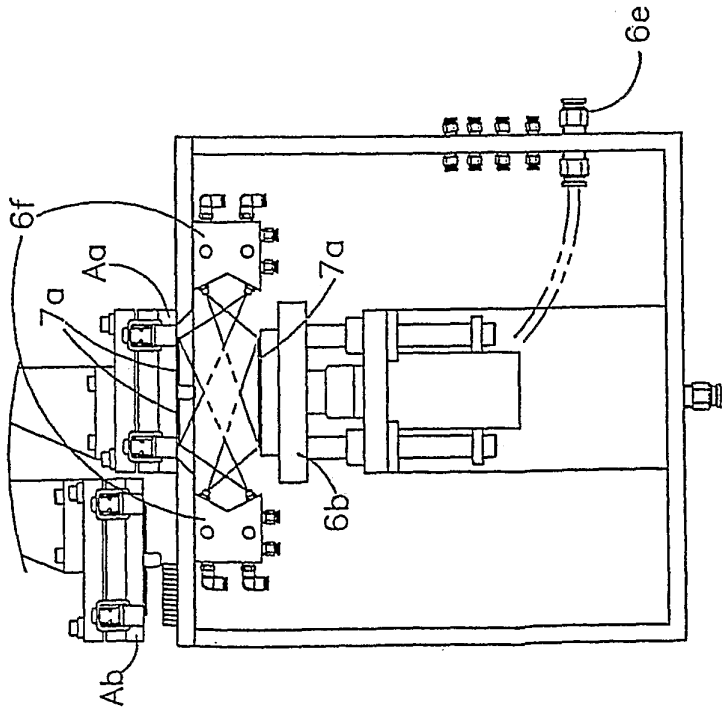
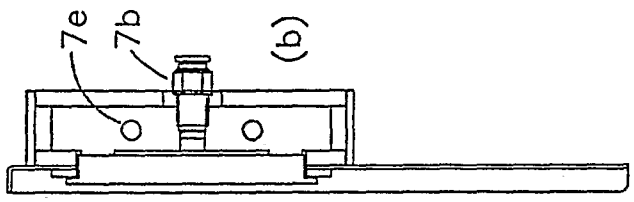


Figure 5



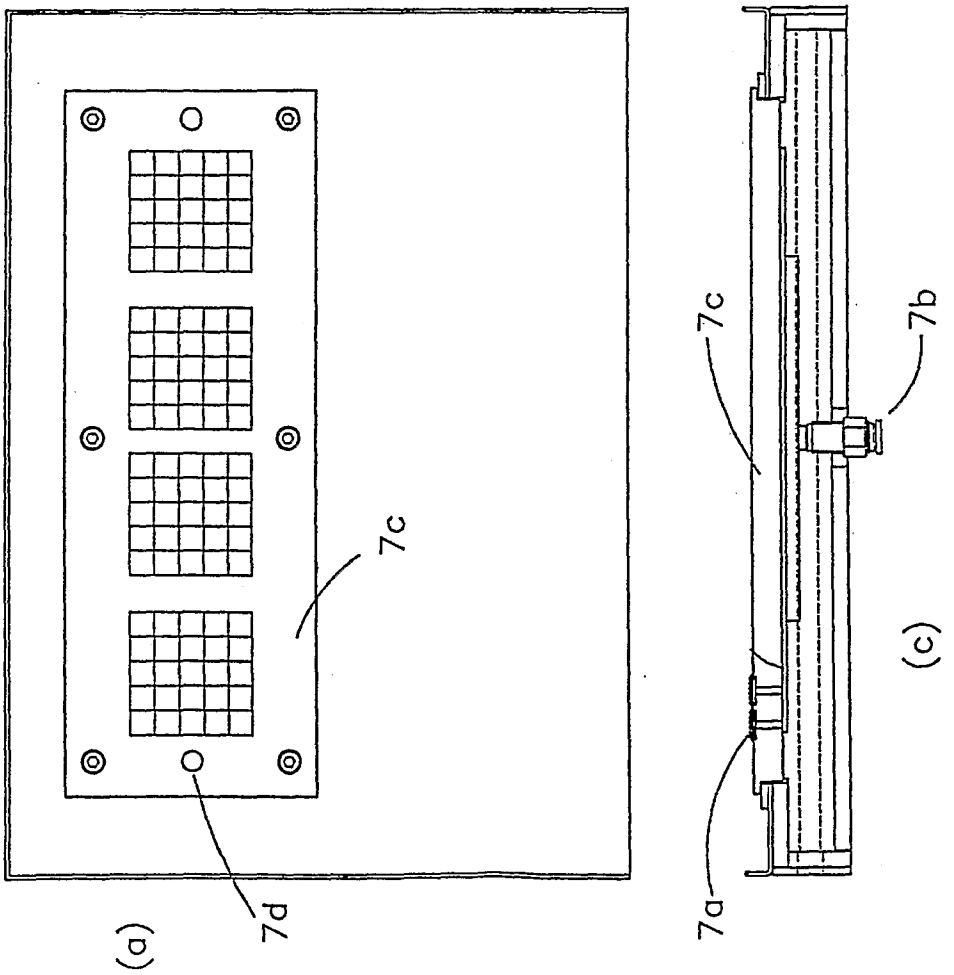


Figure 7

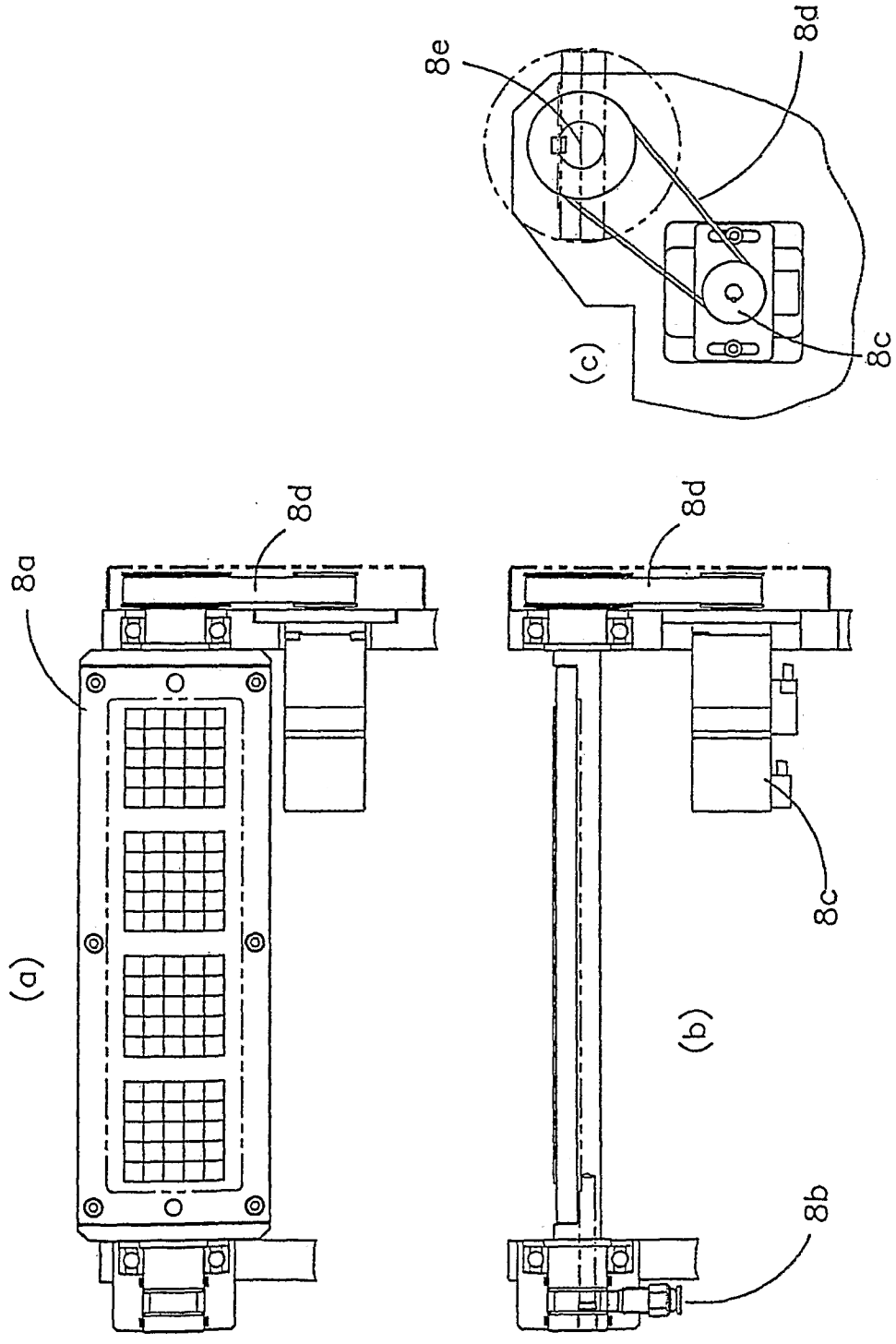


Figure 8

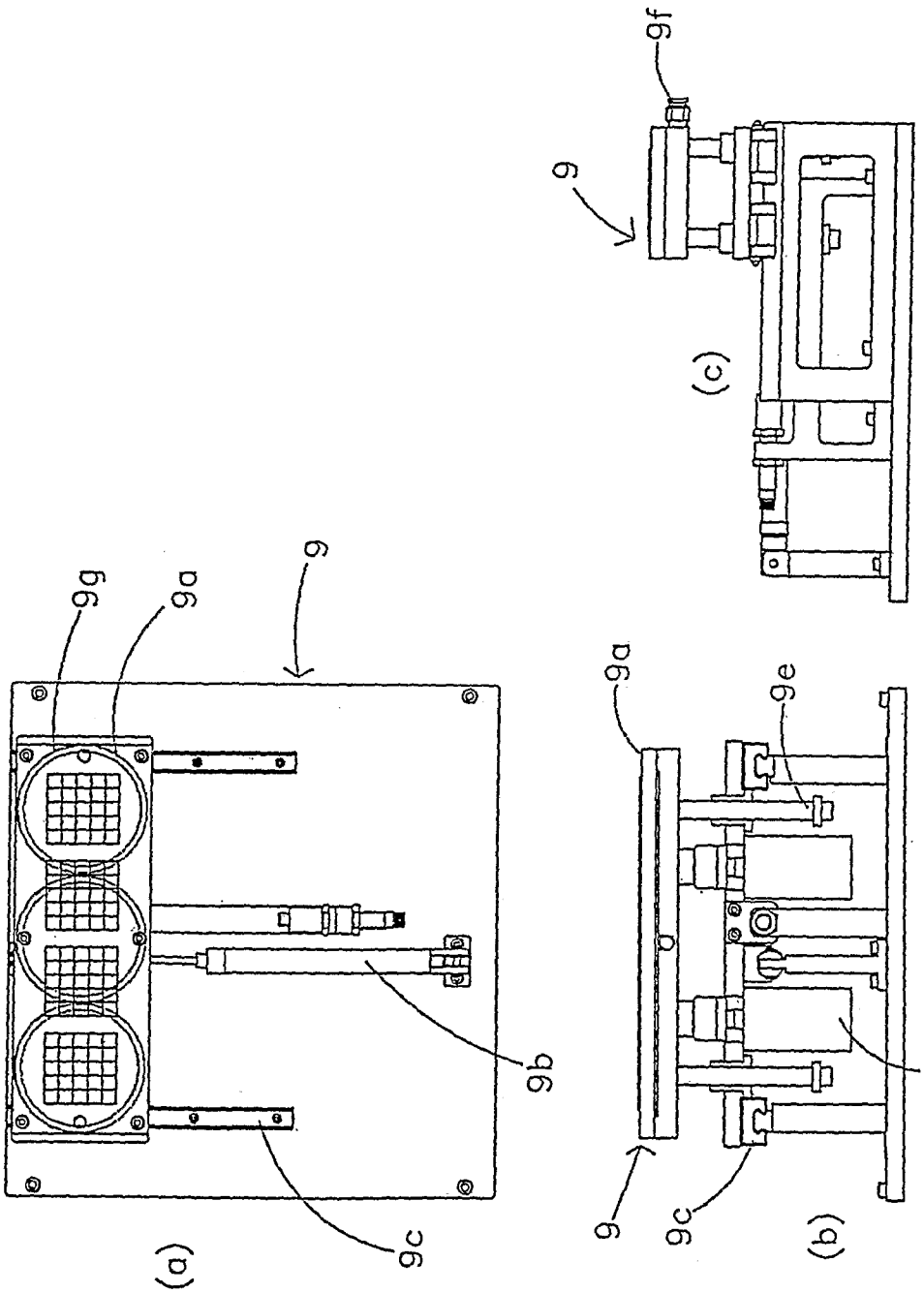


Figure 9

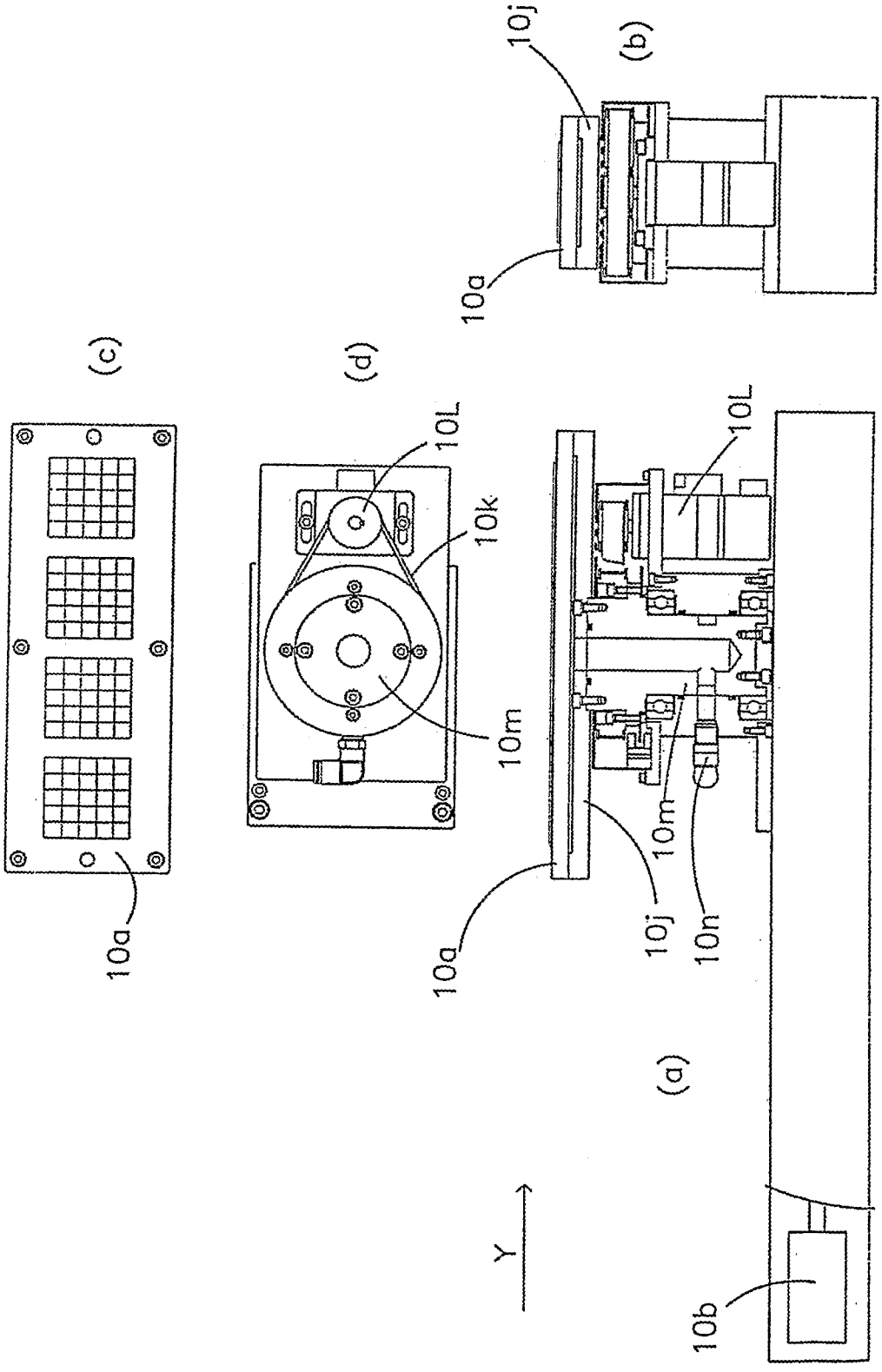


Figure 10(a)

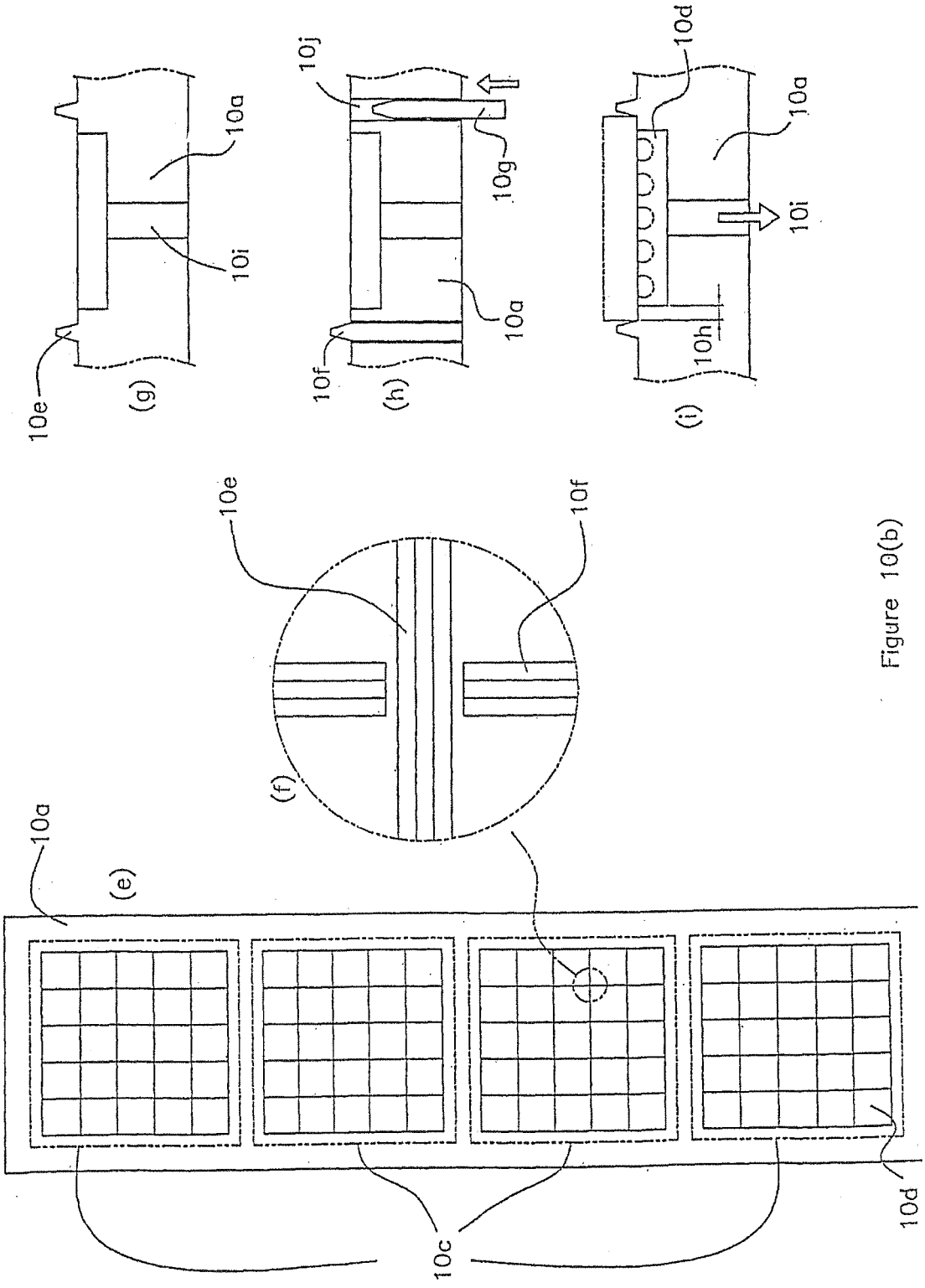

10a
(e)
10e
10f
(f)
10c
10d
10e
10a
10i
(g)
10f
10j
10g
10a
(h)
10d
10a
10i
10h
(i)

Figure 10(b)

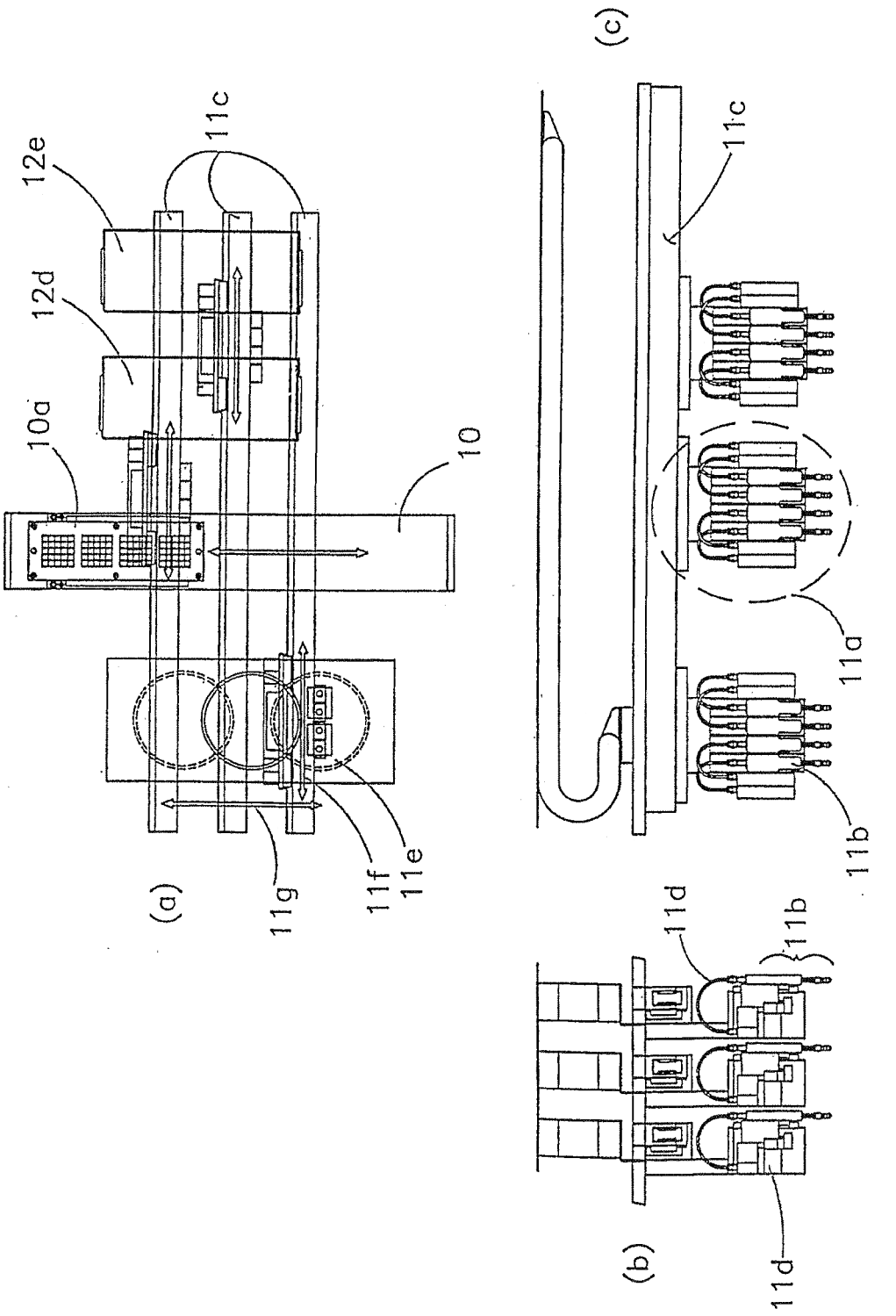


Figure 11

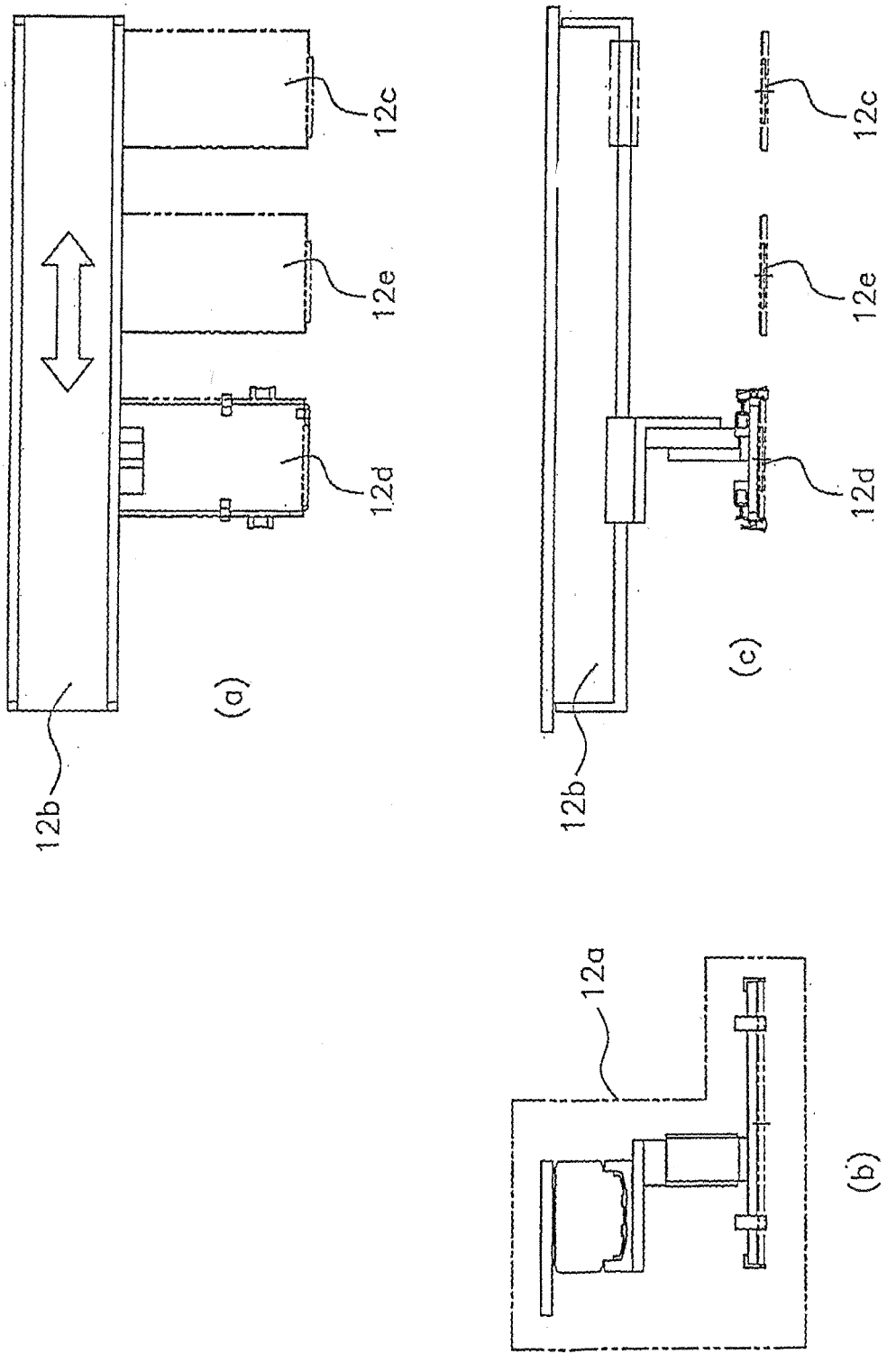


Figure 12

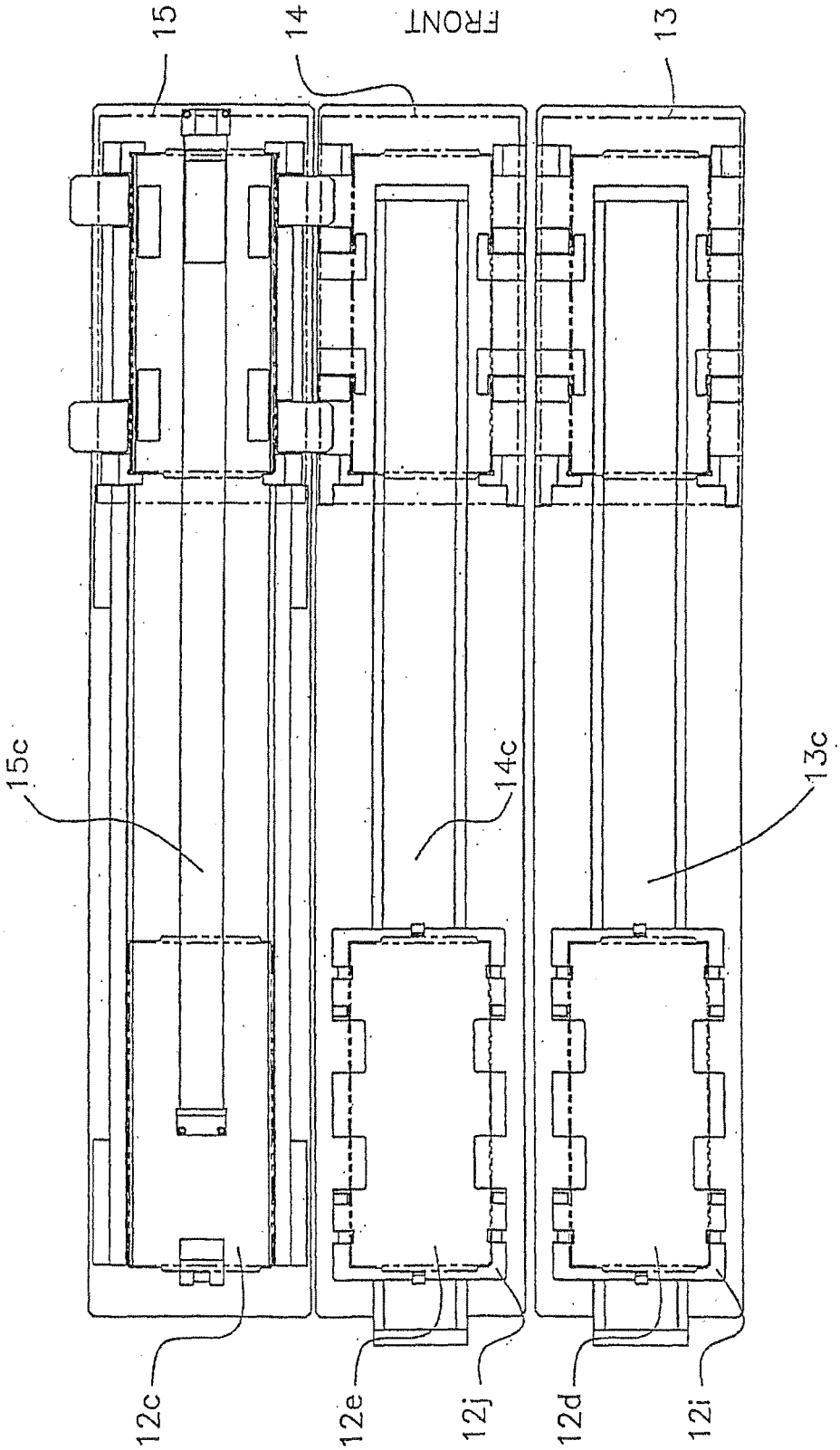


Figure 13

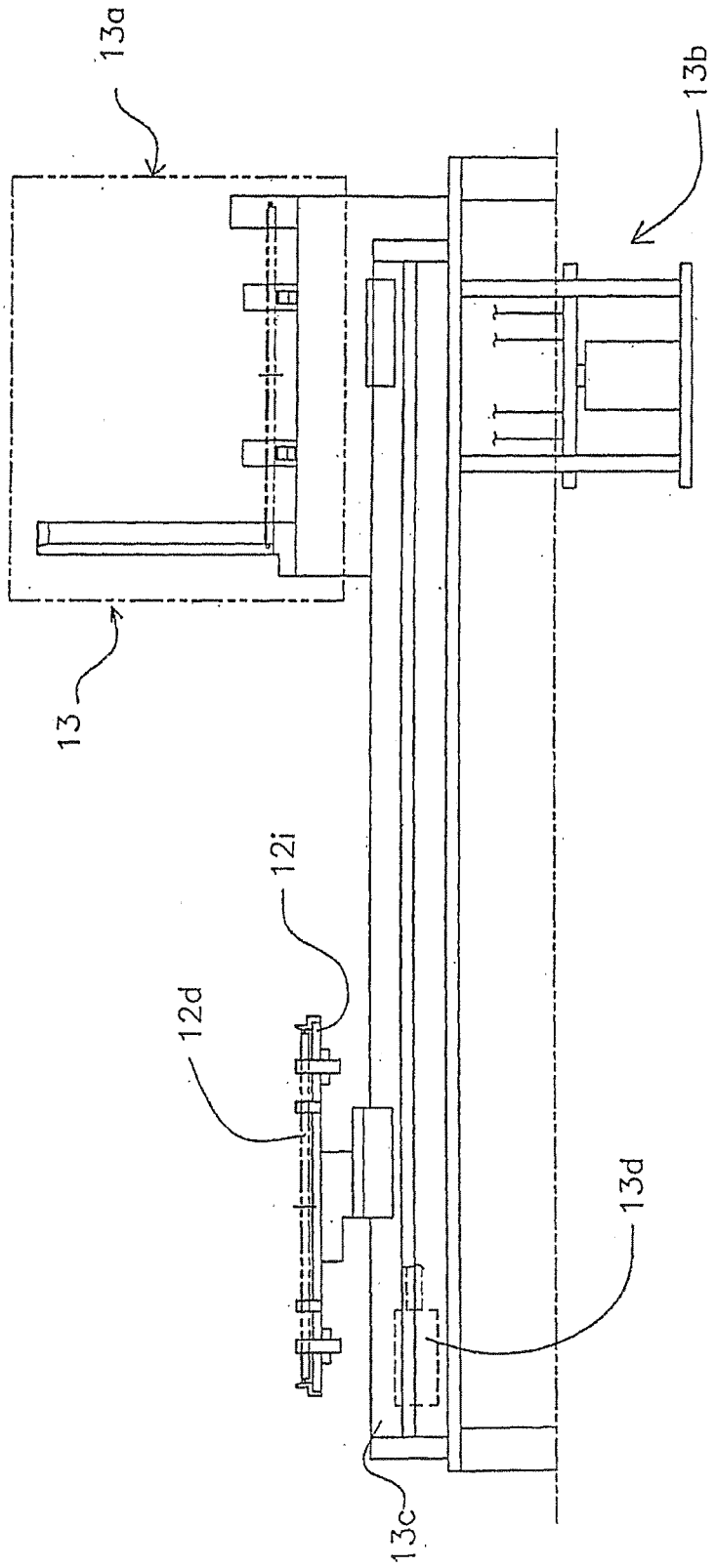


Figure 14(a)

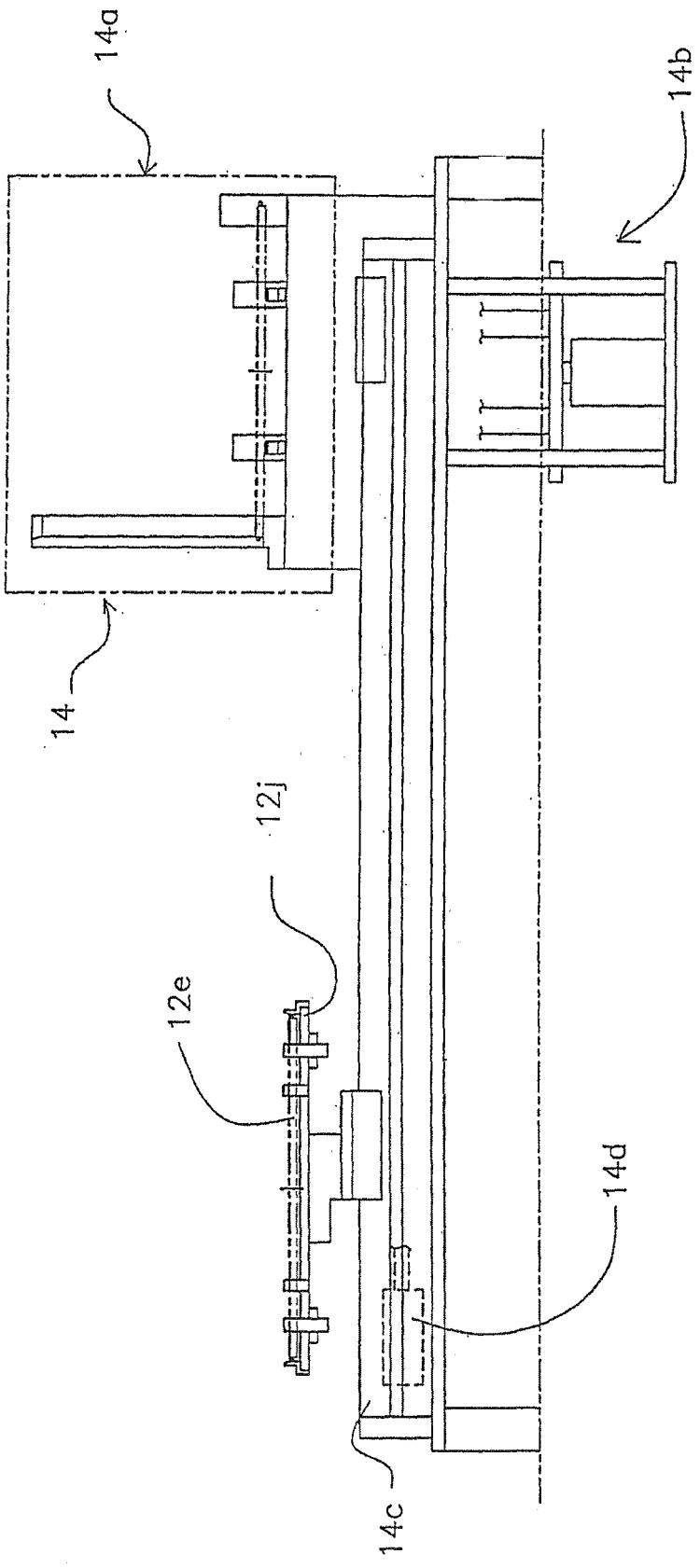


Figure 14(b)

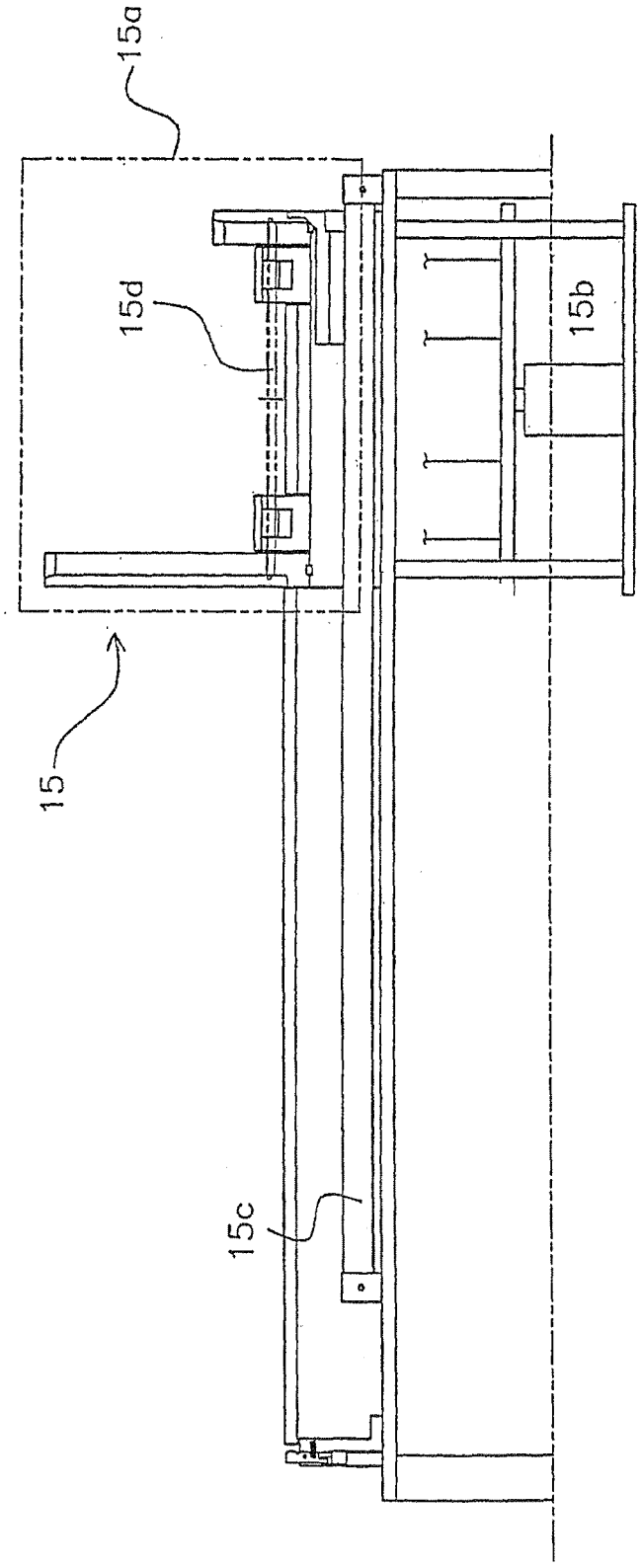


Figure 15

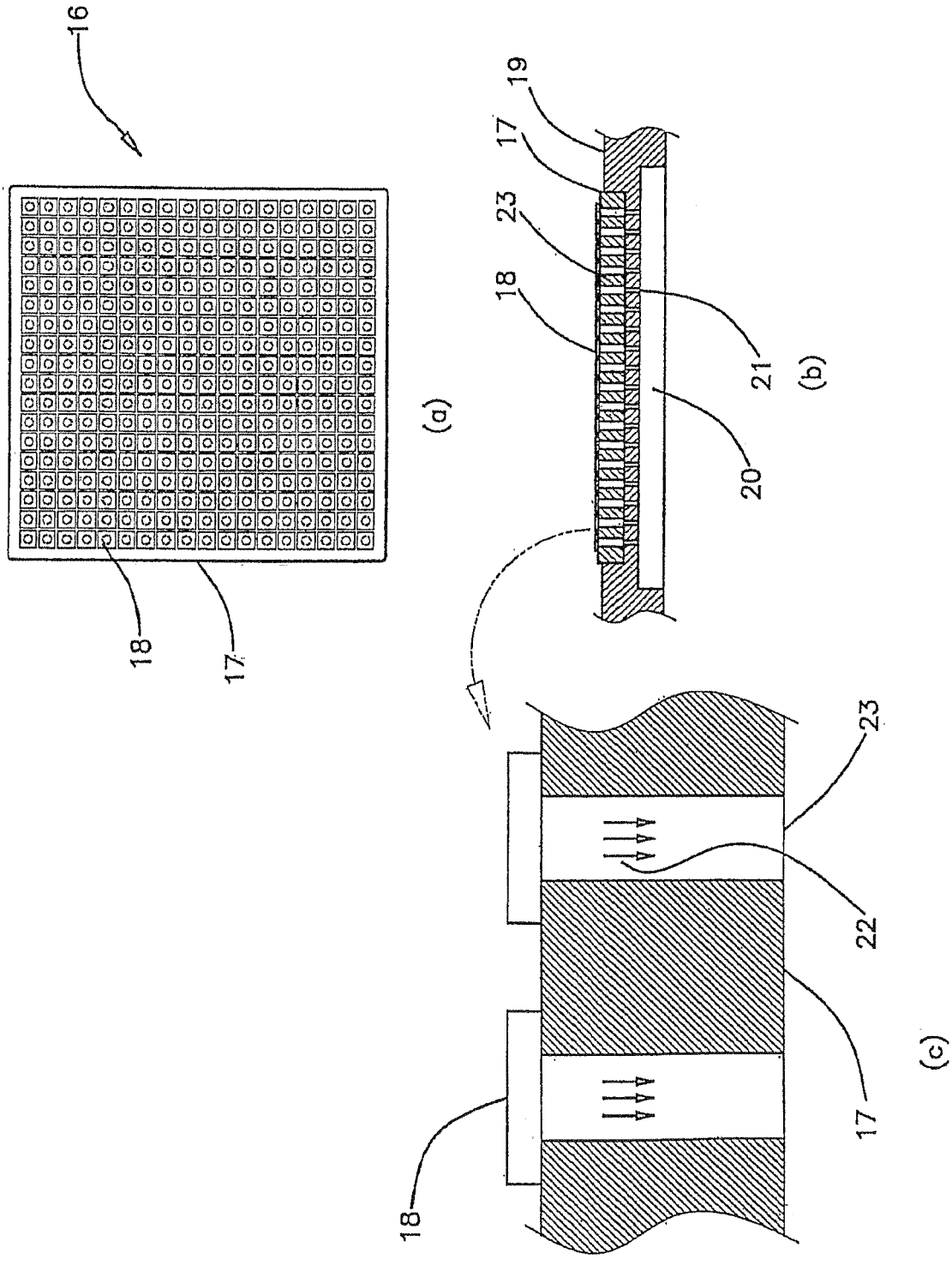


FIGURE 16

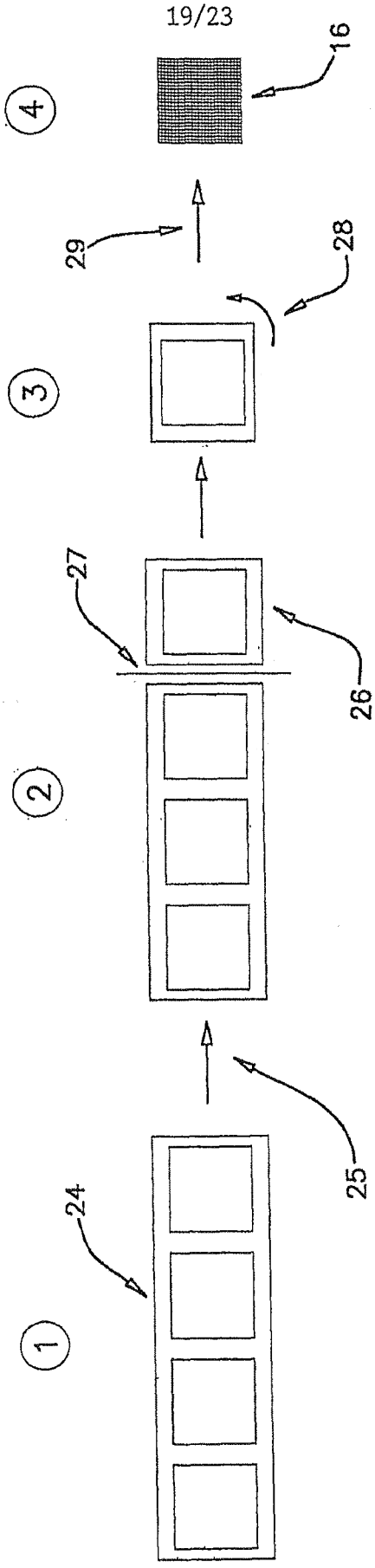


FIGURE 17

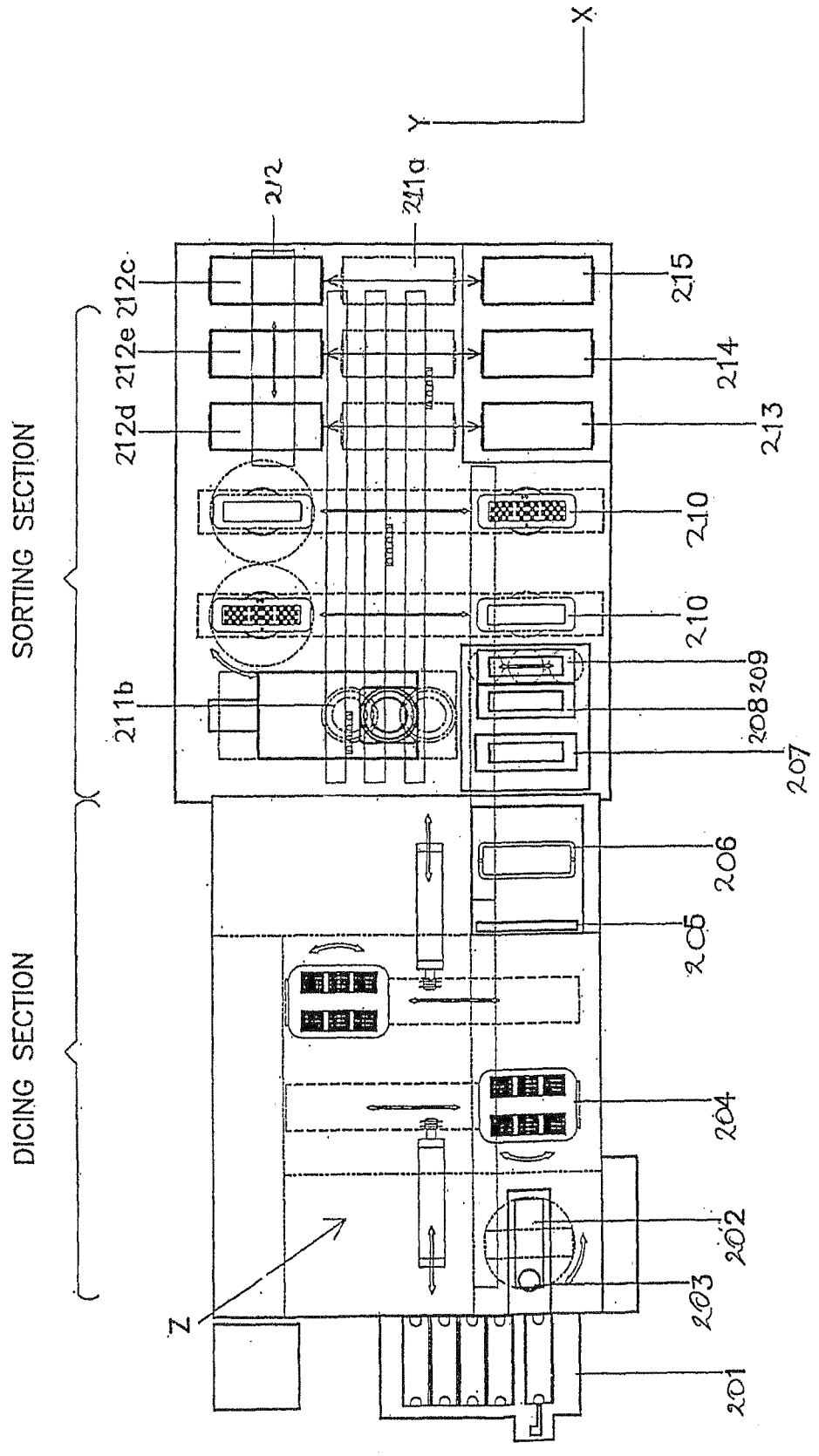

X
Y
Z
SORTING SECTION
DICING SECTION
212
211a
212c
212e
212d
215
214
213
210
210
211b
208
209
207
206
205
204
202
203
201

Figure 18

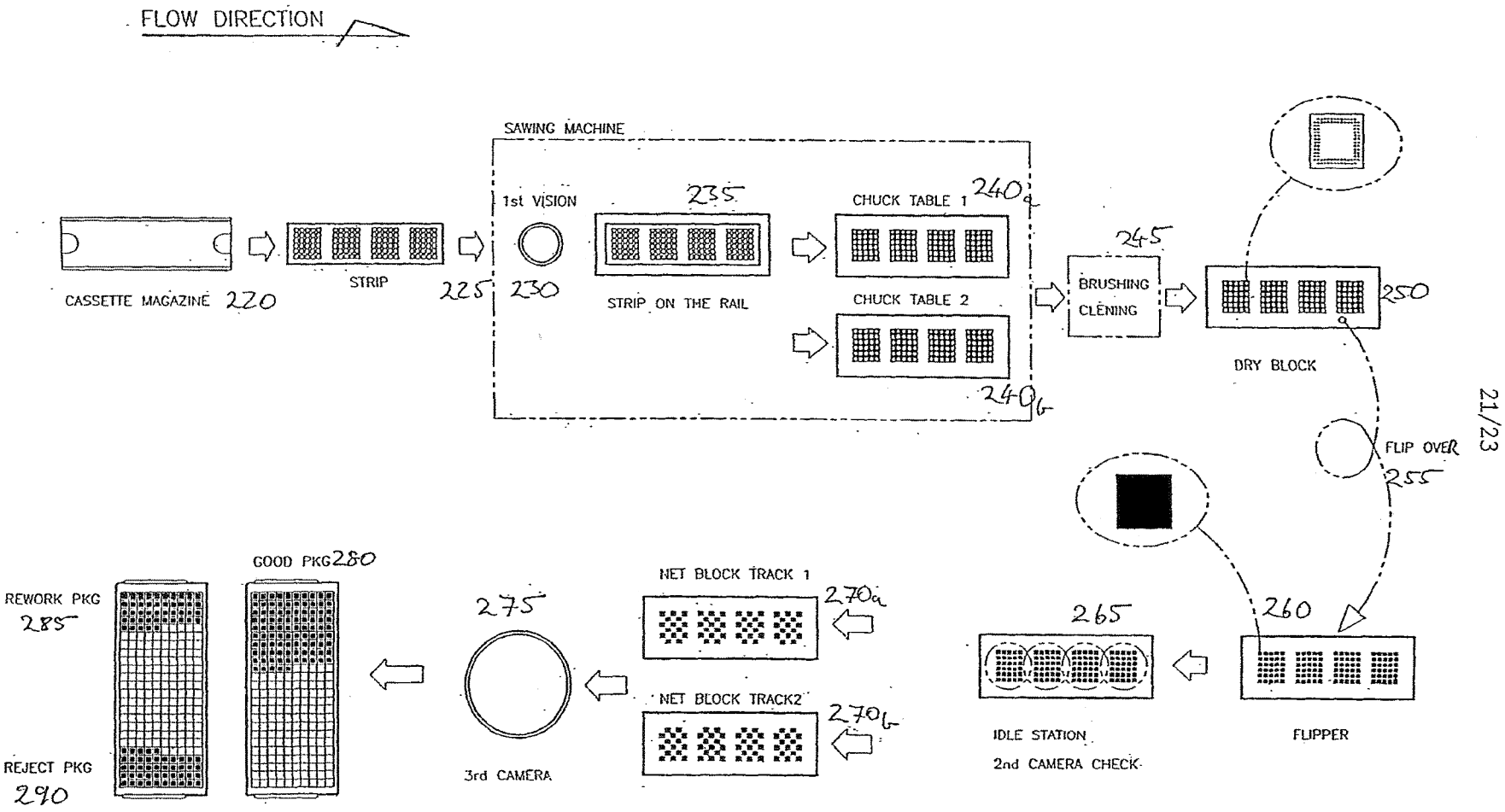

FLOW DIRECTION
SAWING MACHINE
CASSETTE MAGAZINE 220
STRIP
225
1st VISION
230
235
STRIP ON THE RAIL
CHUCK TABLE 1
240a
CHUCK TABLE 2
240b
245
BRUSHING CLENING
DRY BLOCK
250
FLIP OVER
255
FLIPPER
260
IDLE STATION
2nd CAMERA CHECK
265
NET BLOCK TRACK 1
270a
NET BLOCK TRACK2
270b
275
3rd CAMERA
GOOD PKG280
REWORK PKG
285
REJECT PKG
290

FIGURE 19

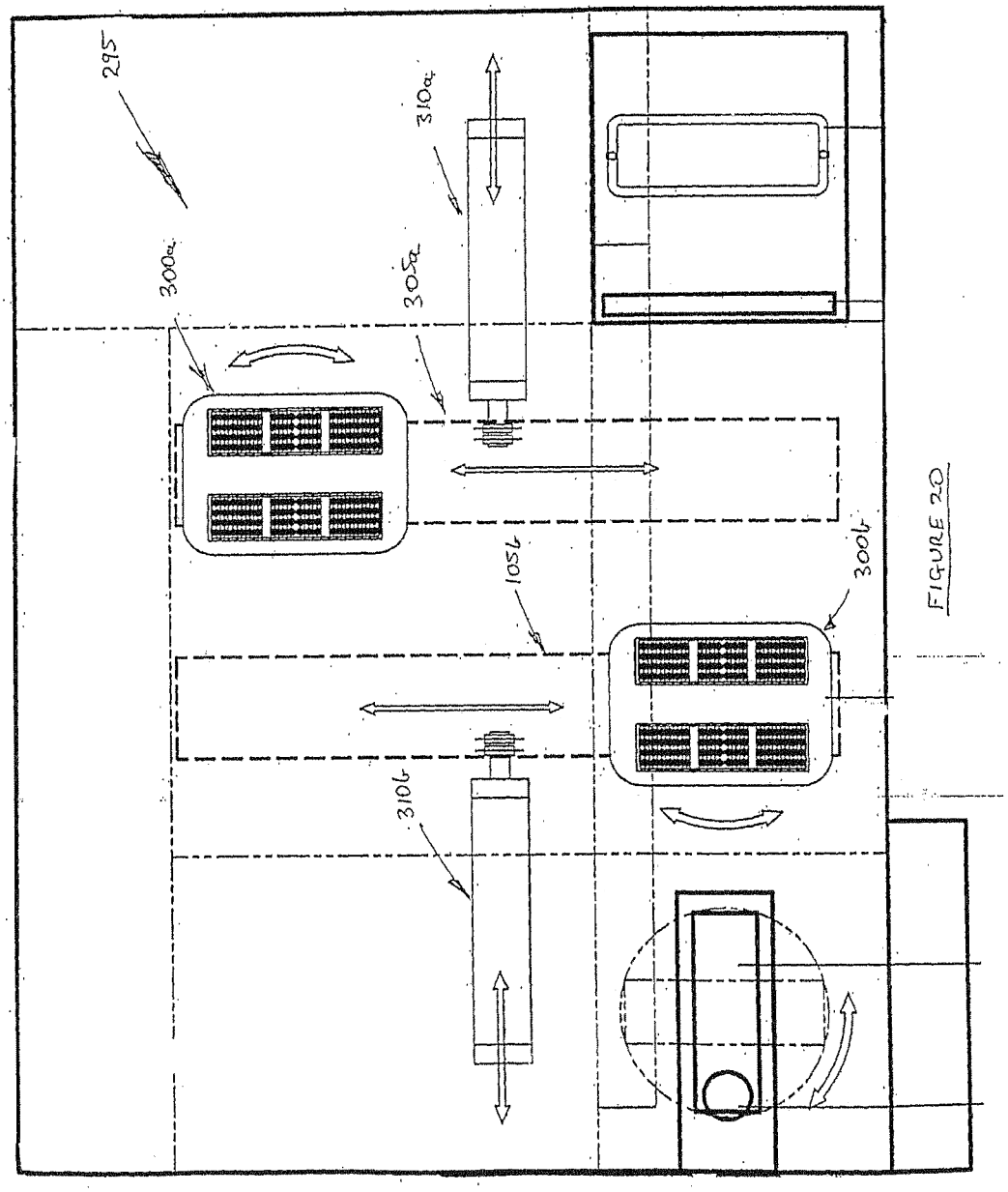


FIGURE 20

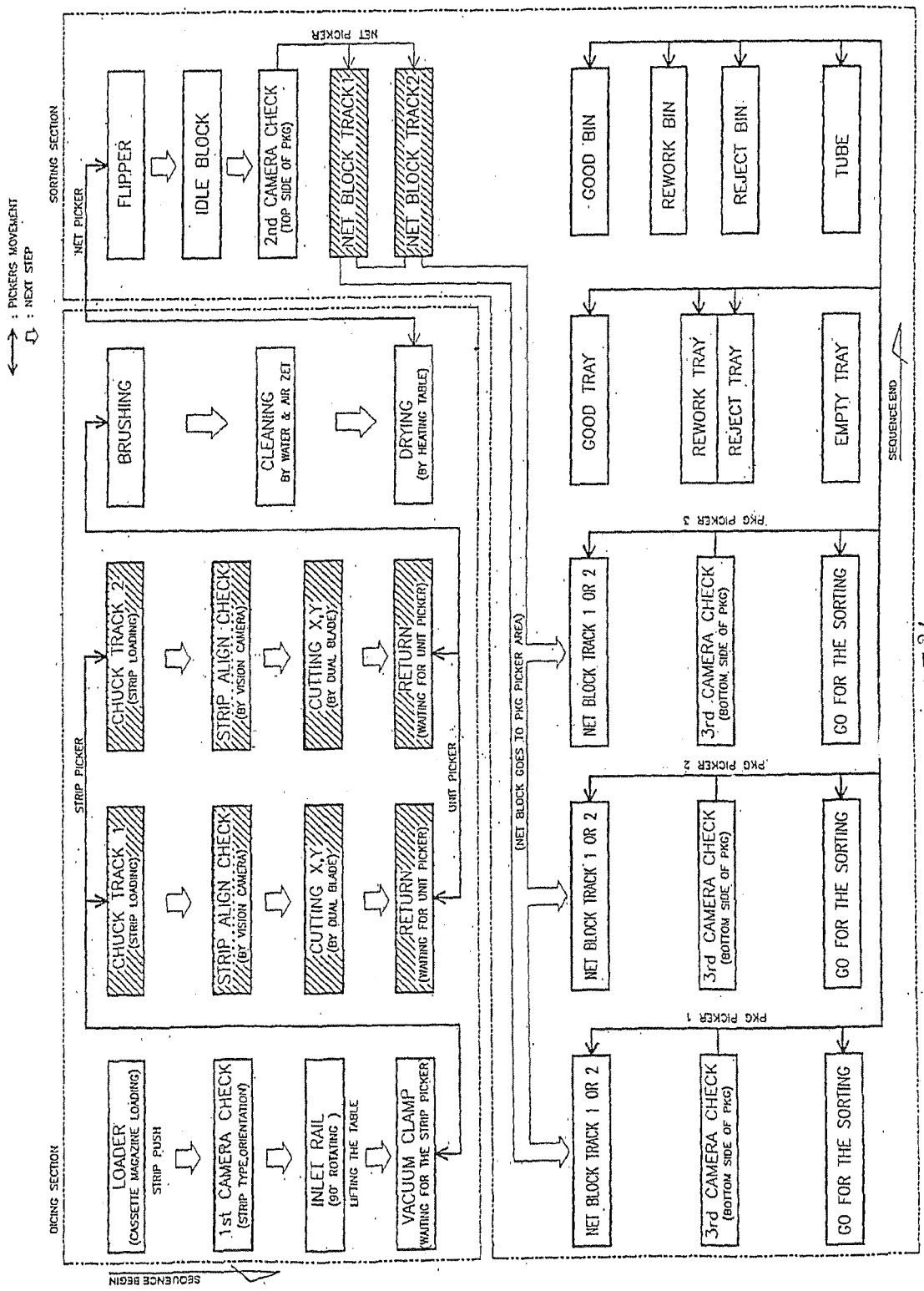

: PICKERS MOVEMENT
: NEXT STEP
DICING SECTION
SEQUENCE BEGIN
STRIP PICKER
SORTING SECTION
NET PICKER
NET PICKER
LOADER
(CASSETTE MAGAZINE LOADING)
STRIP PUSH
1st CAMERA CHECK
(STRIP TYPE,ORIENTATION)
INLET RAIL
(90° ROTATING)
LIFTING THE TABLE
VACUUM CLAMP
(WAITING FOR THE STRIP PICKER
CHUCK TRACK 1
(STRIP LOADING)
STRIP ALIGN CHECK
(BY VISION CAMERA)
CUTTING X,Y
(BY DUAL BLADE)
RETURN
(WAITING FOR UNIT PICKER)
CHUCK TRACK 2
(STRIP LOADING)
STRIP ALIGN CHECK
(BY VISION CAMERA)
CUTTING X,Y
(BY DUAL BLADE)
RETURN
(WAITING FOR UNIT PICKER)
UNIT PICKER
BRUSHING
CLEANING
BY WATER & AIR ZET
DRYING
(BY HEATING TABLE)
FLIPPER
IDLE BLOCK
2nd CAMERA CHECK
(TOP SIDE OF PKG)
NET BLOCK TRACK1
NET BLOCK TRACK2
(NET BLOCK GOES TO PKG PICKER AREA)
NET BLOCK TRACK 1 OR 2
3rd CAMERA CHECK
(BOTTOM SIDE OF PKG)
GO FOR THE SORTING
PKG PICKER 1
NET BLOCK TRACK 1 OR 2
3rd CAMERA CHECK
(BOTTOM SIDE OF PKG)
GO FOR THE SORTING
PKG PICKER 2
NET BLOCK TRACK 1 OR 2
3rd CAMERA CHECK
(BOTTOM SIDE OF PKG)
GO FOR THE SORTING
PKG PICKER 3
GOOD BIN
REWORK BIN
REJECT BIN
TUBE
GOOD TRAY
REWORK TRAY
REJECT TRAY
EMPTY TRAY
SEQUENCE END

FIGURE 21