

(19) (12) (KR) (A)

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(21) 10-2003-7016379
(22) 2003 12 13
2003 12 13
(86) PCT/SG2002/000119 (87) WO 2002/100741
(86) 2002 06 13 (87) 2002 12 19

(30) 0103487-5 2001 06 13 가 (SG)
(71) ,
가 709144 21
(72) 가 600401 가 401#25-02
가 709144 21
(74)

:
(54)

(10) (20)
 . 가 (10) 가 . 가
 , ,
 . ,
 . ,

(batching)

45 °
(mess)가
(tipping equipment)

(silo container)(

가)

; 가

/ (casting)

가 가

가 가 ;
(color pigment)가 가(limenstone)
(pla

nt)

(bed)

가 가 (environmental authorities)

가

가 가
(concrete mixer)
가

가

가

(barge)

(spcialised

ship)

(open facility)

가

(stacking yard)

()

(mixer container)

1

가

가

가

가

가

(hinged),

가

, 1 (compartment) 가 , 1
 , 가 . , 1
 ,
 ;
 가 , ;
 (slewing) 가 ,
 ,
 ;
 1 가 , 1 2
 (fastening means) (arm means) ,
 , 가
 2 1 , 가
 2 가 .
 1
 , 2 ,
 ,
 ,
 2 ,
 (pollution control enclosure)가 .
 ,
 (stocking chamber) (stocking section);
 (scaling section) ,
 가
 .
 , ,
 , 1
 .
 , 가 , 1
 ,
 가 , ,
 .

1a 1c ,
;
2a 2e , (hinged)
;
3a 3b (compartmentalised container) ;
4a 4b ;
5a 5e ;
6a 6f ;
7a 7c ;
8a 8g ,
;
9a 9c ;
10 ;
11a 11d , (stackd-up) (interfacial s
eals) ;
12a 12c (waste) ;
13 .

1 (20) (10) . (10) , ISO-
- (SeaLand type)
(corner casting) 가 . 가 ,
가 , (20)가 . ,
가 (30) 가 . (30) , 가
가 , (20) , (15) (20)
가 가 (clogging) .
2 (20)가 . (21) , 1b 1c
(20', 20') 가 . ,
2 가 . / 가
(split) /
2a (22) .
(base strut) 2 (22', 22') . 20
(24) 가 , (rigidit
y) (2c) . , () ()
(31)가 . (moving edge) ,

(locking and releasing mechanism) (31) (2d 2e). (31)

(10') (3a 3b).

(, , / ())

(, ,)

(blending station) (prescaling)

3

/

가 4a 4b , 가 . ,

(moisture content)

() - ()

가

가

가

가

가

(rack) (pinion)

(winch) 가

(10, 10') () (가)

(10, 10')가 가 . , 가

(20)((20'))

가 가

5a 5b 가 5c

가 (10''') 3 (funnel portion)가 , 가

(32) (32) (32) 가

, 3 가 , 3 가

5a 5c (32) , 2

(32a) (32b) 가 (32b) 가

(32c) 2 (32b) 3 (32c)가 (

32b) 가

(32b) (33) , 가 (38)

가

(32a) (33)

(32a) 가

(33) 가 , (strut) (33) 2 가 .

(32e) (32d) (10''') (32b) , (32e)가 . (32c) , (37)가 . (37) (32e) , (32f) 가 5b 2 (37, 37') , (32f) ,

32)가 (36) (10''') (34) (34a) (32c) . (32) (36a, 34a) (36a) (32c) , (36b, 36') (32) (34) / (36) (10''') (35) (10''')가 (34) 가 , (10''') (32) (10''')가 (10''') (32) () (32) , 가 (32)가 , 가 5d , (32) (35a) (10')가 (35) (35a)가 (32) (10') (36') 2 (catch) (32)

5e (lifting facility)가 (10') (headroom) 가 (35a') , 6a 6b 가 (10 iv) (25) , (25) 20 60 ° (26) (26) (27) (26) (25) , (25) (27) (26) 가 , (27) (27) (28) 가 (28) (28)가 (27) , (2 f-closing) , (28) (29) (28) (25) 가 (26) , (가 () 가 ()

(sacrificial cover)(29a)가 (29) , (29a) ,

6b , 가 (120)(8a 8b) (29)

(28) (120) ,

가 (120) .

6a 6b 가 가

6c 가 (120) (29b)

(28) 가

(29) (29b) (120) (104, 110) (102)(

8) ,

6d 6e 2 (28) 가 (28a) 가 6d (28)

가 가 (28b) (28b)

(28b) (28b) (28) 가 ,

(28b) ,

V (28c)가 (28c) (28c)

V (28d) (28d) (28)

가 (28d)가

(28b) (lengthwise) (28e) , 2 4 (

28e) (28) (28b) (27) 28e 2 (2

8e) (28b) (28)

가 가 ,

6f (28) 2 (28e) 가 (28e)

(28b)가 2

(28)

7a 7c ,

(47) (41) , (42) 가 (41) (41a)

(42) , (48) (41a)

(47) , 가 가

(42) (42)

가 . , 가 2 (44) (44) (43) 가 . (46) 가 , . (4

6) 가 (44) 90° . 가 (42) 360° .

(44) (46) 1 2 (44) (46) (alternatively) . 1 (44) 2 , (46) (45)가 , (44) (46) 1 . , (43) . ,

가 (42) , (41) (42) 180° 가 180° 180°

(47) , ,

가 (40) 가 . 2 (40)가 가 (49) 가 , 가 7c .

8a 0) 가 . , 가 (102) (60) (70) 가 (70) (50) 가 . , (10

10)가 . 3 (103) (102) (104, 110)가 . 2 (104, 1 (105)가 . () ,

8b (100) 가 (10) 가 (120) 가 (10) 가 (10) , , 가 . 가 (102) 8c 8e 1 . (120) 8f 2 (126) . (122) . 가 (10) (124) . (126) (diverting shroud) (128)가 . 가 (trap) 가 .

(122) 가 가 . 가
 , (122) 1
 가 (128) , 가
 . 가
 (10'', 10''')가
 .
 8a (60,70) (80) (1
 20) 가 , (50) 가
 (86) (84) . ,
 (82)가 . 가
 .
) 가 , (1
 (100) 60 70 8b
 .
 (40) (120') 9a 9b
 . (100)
 ,
 (126') , (100)
 (104) (120') 9c (132) 가 (49) 1
 (40) 가 (131) 가 . 120'
 가 . 가 120'
 가 , 가
 . 가
 .
 10 (10) (104') (150) (10) /
 (104') (150) 가 , 120
 () (70)
 () (153) (104') (152)가 .
 (70) (120'') 가 .
 . 가
 , 가
 .
 , 가
 가 . 11a - 11d (200,210) 200 가 200
 , 가 6mm 200 가 (201)
 가 210 ,
 .
 , , ;
 , 가
 ,
 , 12a 12b (140)가
 , 가
 , 가

142가 . 가 가 .
 , (140,142) ,
 (140)가 .

13 .
 (300) , () ,
 (rubber - tyre gantry) (350)
 . (500) .
 , (70) (60) .
 . ,
 , ,
 , .

(right amount) , 가 가 (500)
 , (grouting) (600) .

가 . , ,
 ; ; ,
 / .

가 가 ,
 , 가 .

(57)

1.

,

가 , , .

2.

1 ,

가 .

3.

1 2 ,

가 .

4.

1 3 ,

가 가 2 가 , .

5.

4 ,

가 .

6.

- 1 , , 가 , (closure assembly) .
- 6 7. , (swing) .
- 6 8. 7 , .
- 6 9. 8 , (hook means) .
- 6 10. 9 , (linkage means) 가 .
- 6 11. 10 , , .
- 11 12. , , .
- 11 13. 12 , 가 , .
- 1 14. , (discharge chute) .
- 14 15. ,

가

16.

14 15

가

가

17.

16

18.

17

19.

17

가 (access means)

20.

17

21.

20

(flexible means)

22.

1 21

가

23.

1 22

;

24.

1 23

/

25.

1 24

가

가

26.

1 25 ,
가 (locking and securing means)
.

27.

1 26 ,
가 .

28.

1 27 ,
 , 가
.

29.

(slewing) ,
;
가 , ;
 ,
 ;

1 가 , 1 2
(fastening means) (arm means) ,

2 1 , 가
가 .

30.

29 ,
 1 , 2 ,
 .

31.

29 30 ,
가 .

32.

29 30 ,
가 .

33.

29 32 ,

34.
29 33 ,
(twistlock) ,
35.
(turning apparatus) ,
29 34 , 2
36.
35 ,
2 가
37.
(stocking chamber) (stocking section);
(scaling section) ,
가
38.
37 ,
39.
37 38 ,
28 가 , 1
40.
37 38 ,
35 36 , 29 34
41.
37 40 ,

- 37 **42.** 41 , .
- 37 **43.** 42 , , 가 , .
- 43 **44.** , , 가 가 , .
- 37 **45.** 43 , .
- 43 **46.** 45 , (exhaust fan)
- 46 **47.** , (diverting element) (venting space)
- 46 **48.** 47 , 가 .
- 48 **49.** , 가 .
- 48 **50.** 49 , .
- 51.**

37 50 ,
 / (interfacial seal means)

52.
 37 51 ,
 가 , 가
 .

53.
 37 52 ,
 .

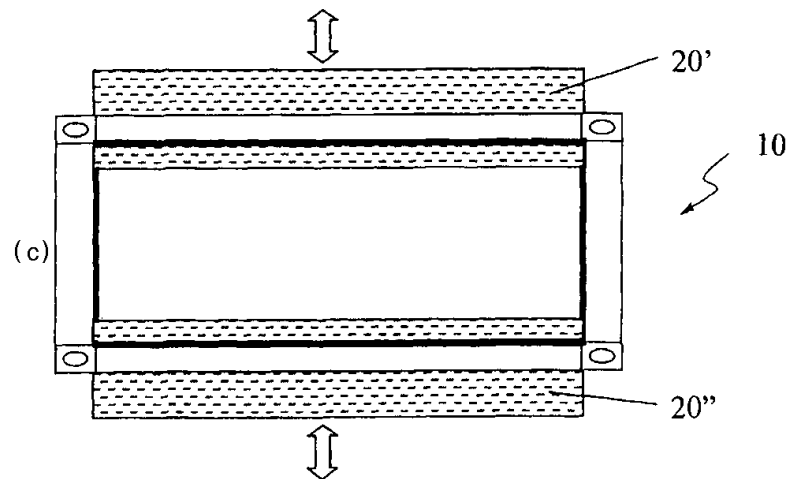
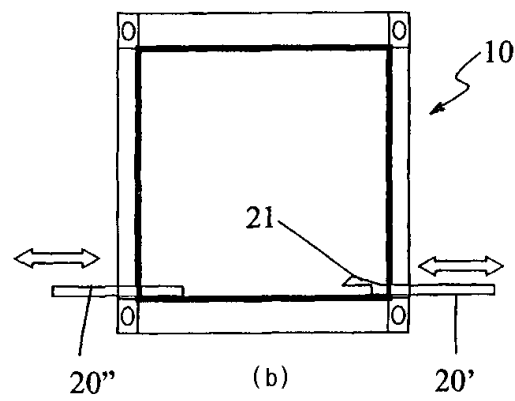
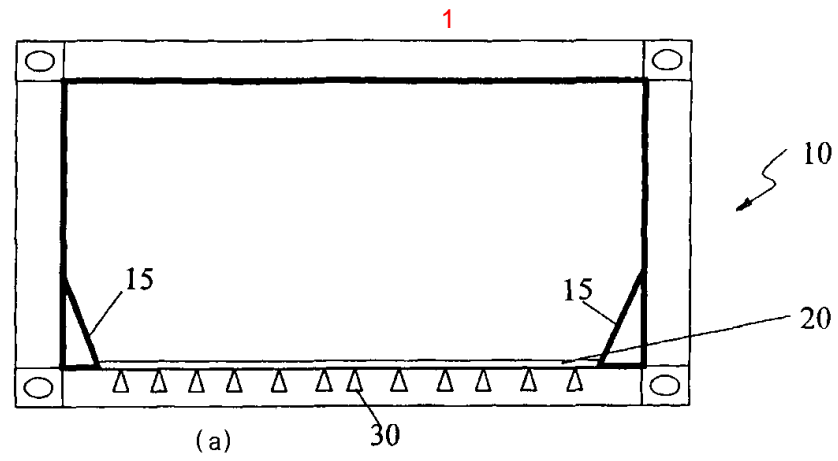
54.
 37 53 ,
 ;
 ;
 ;
 .

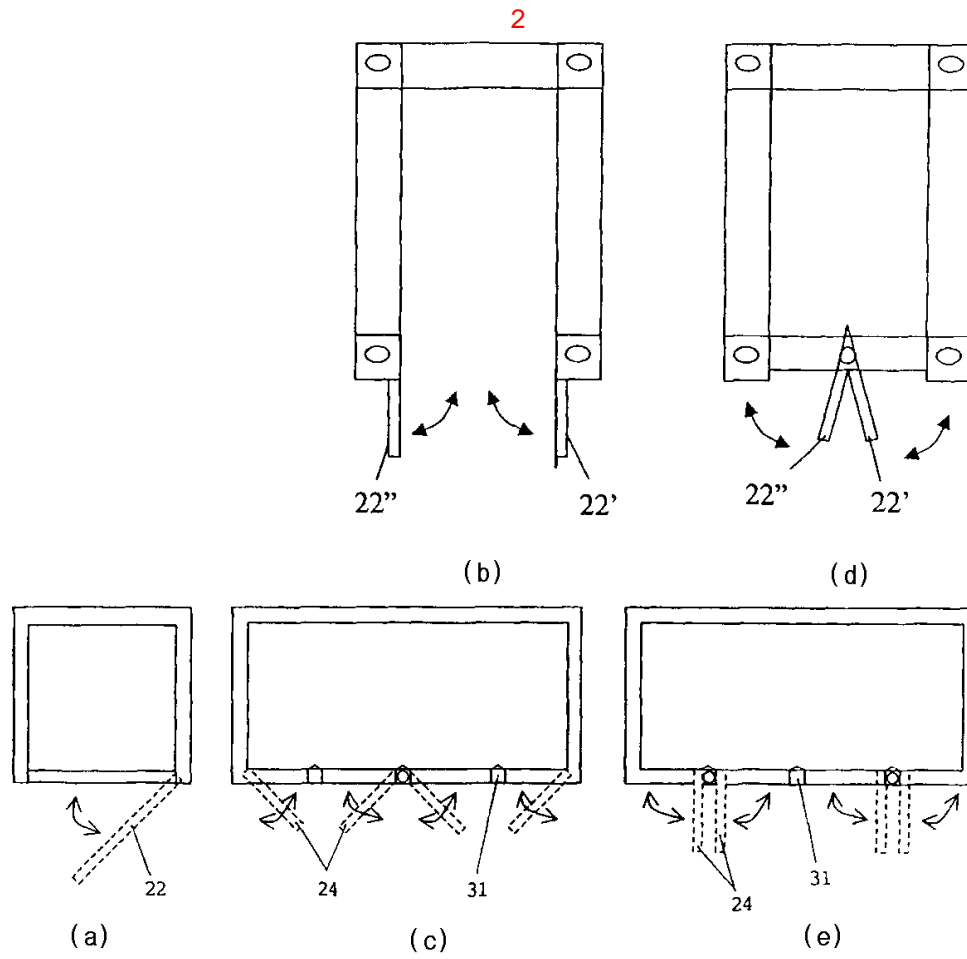
55.
 가 , (clipably)
 가 .

56.
 55 ,
 .

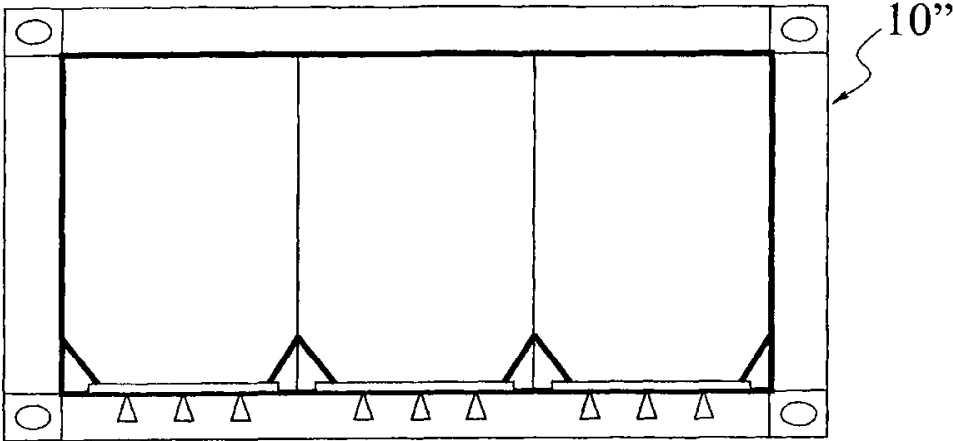
57.
 .

58.
 , , ,
 .

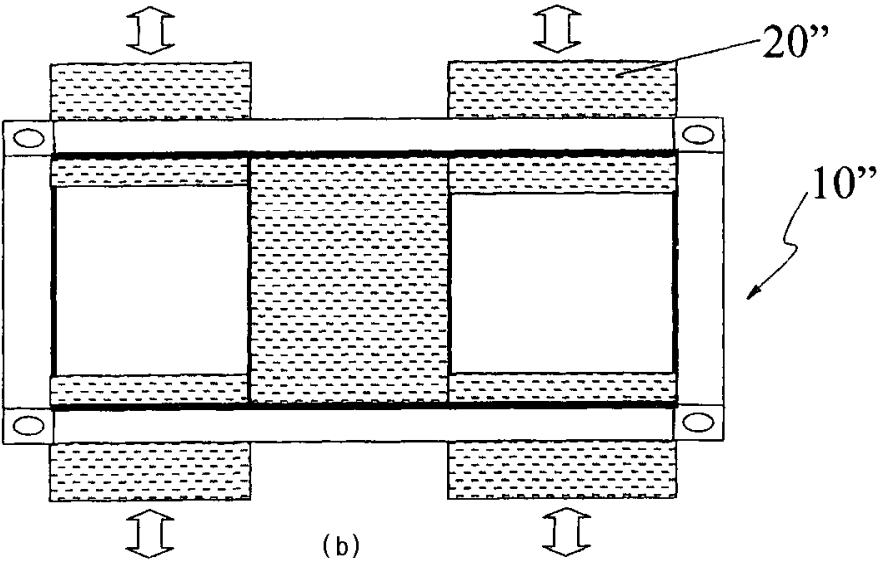




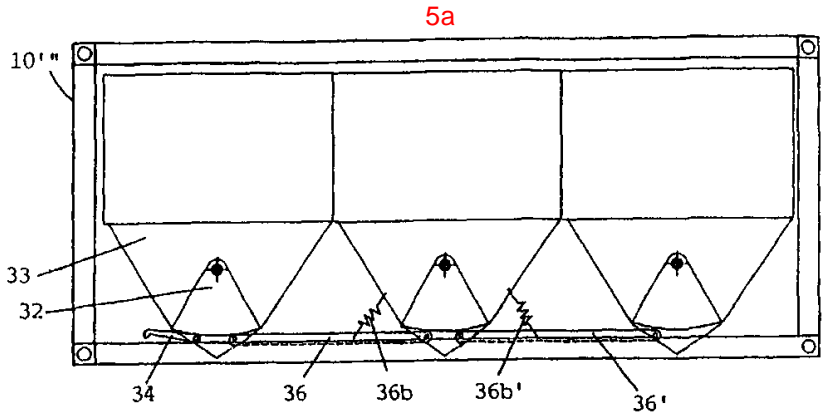
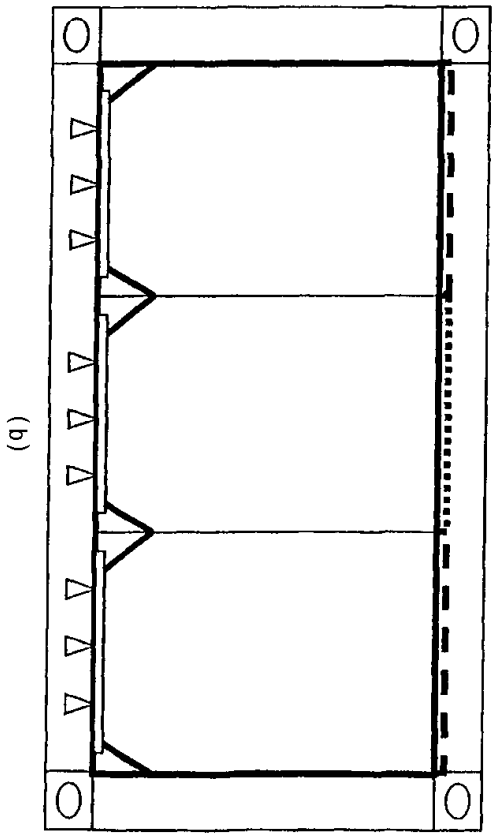
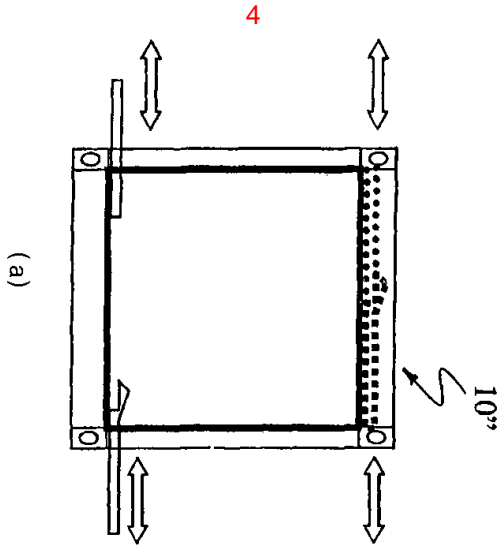
3



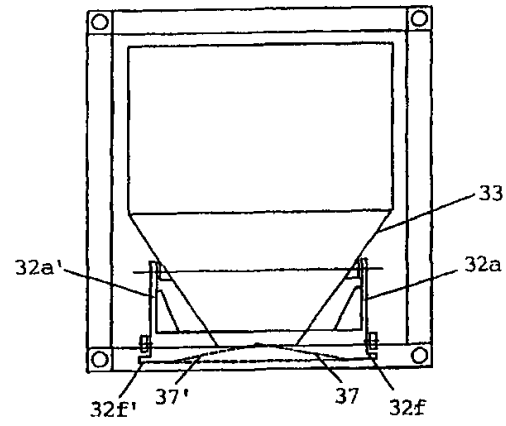
(a)



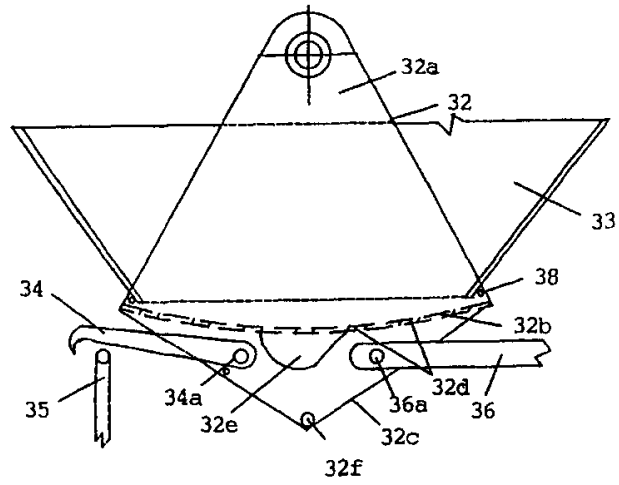
(b)



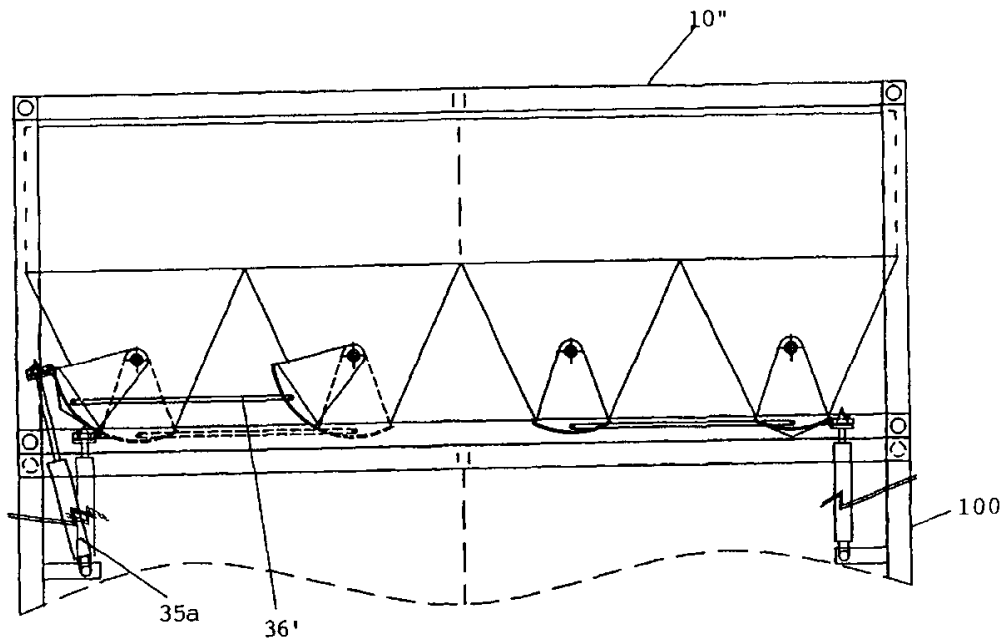
5b

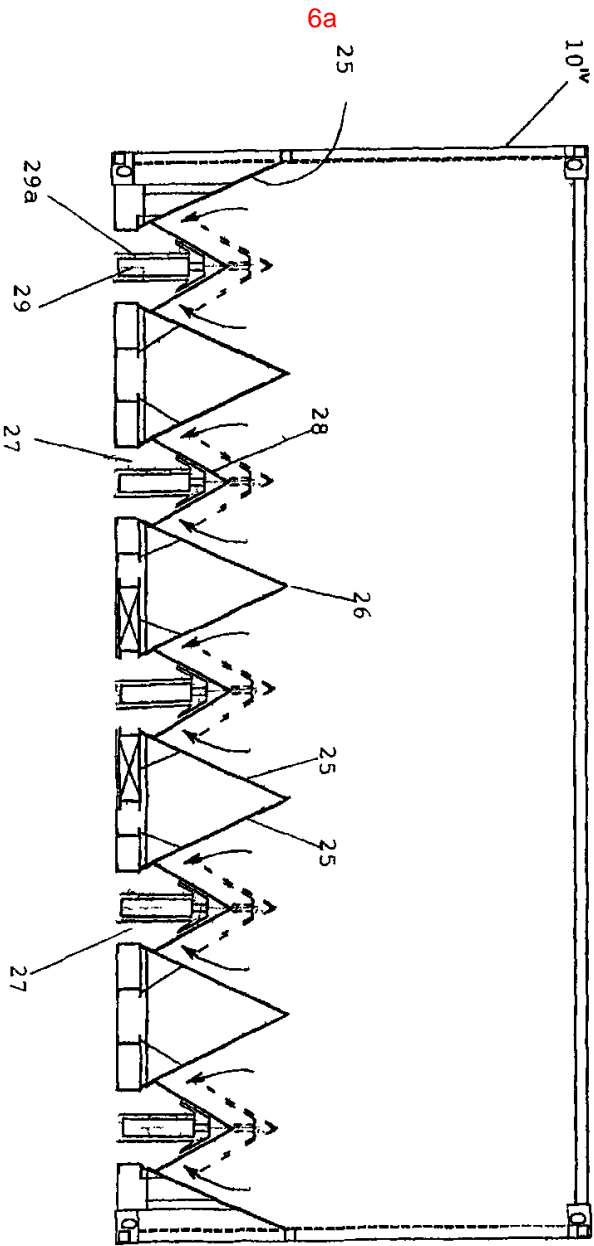
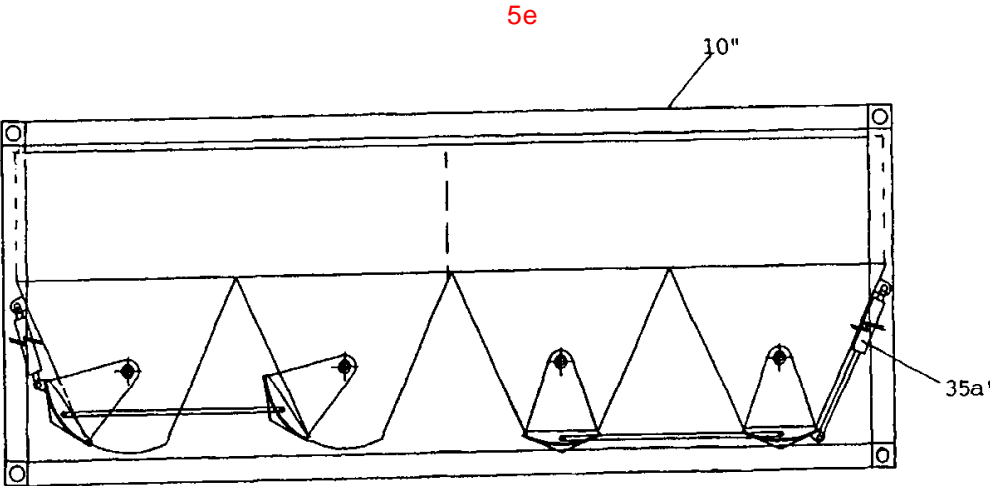


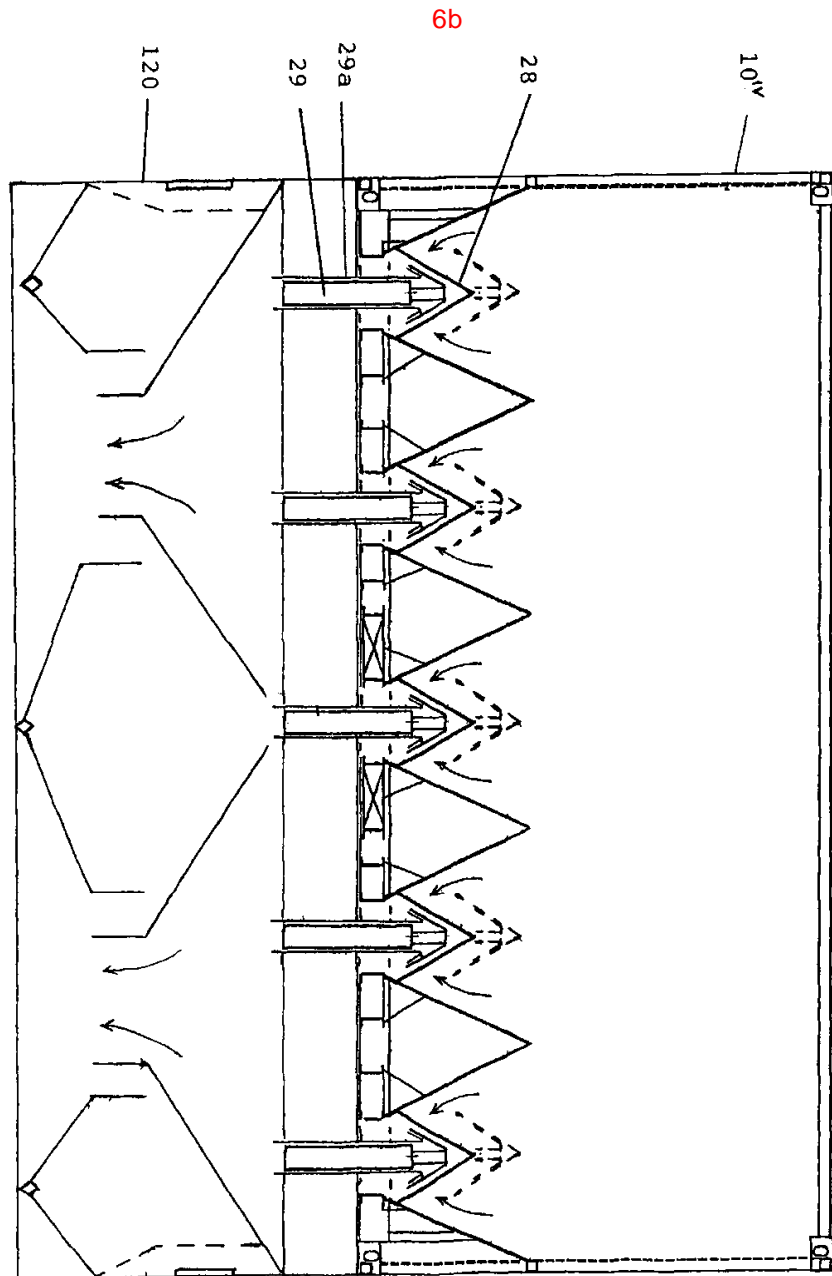
5c

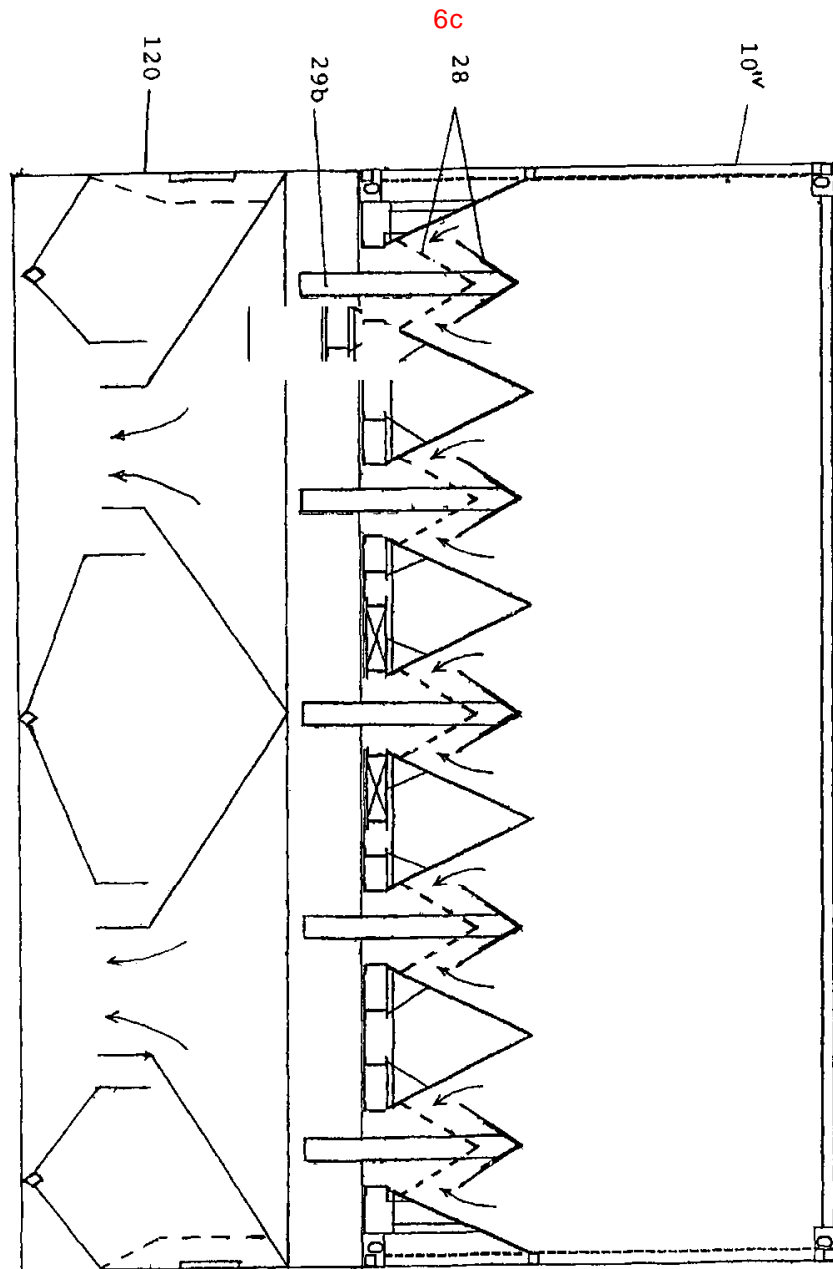


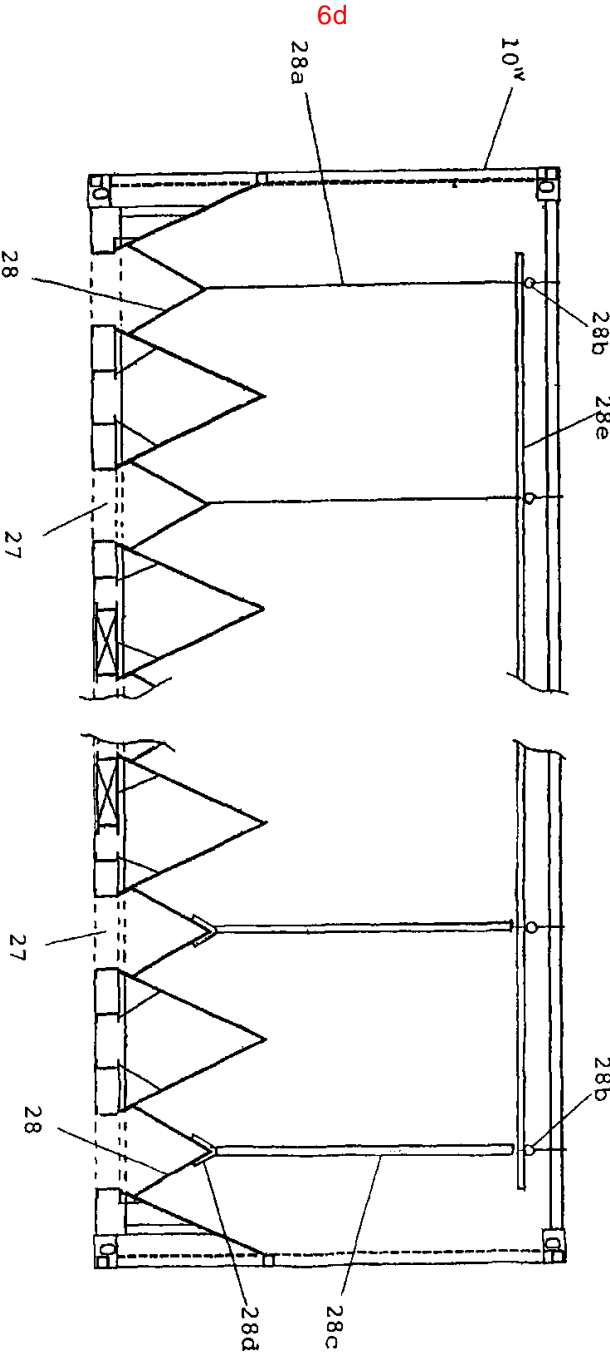
5d

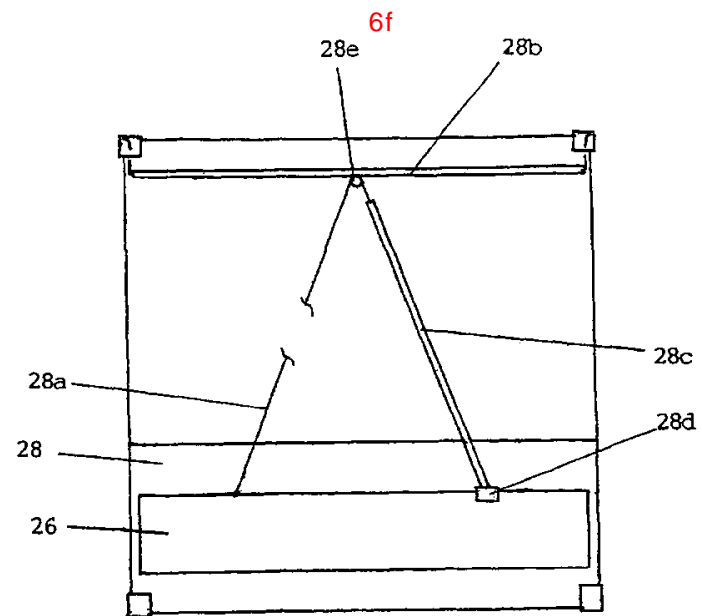
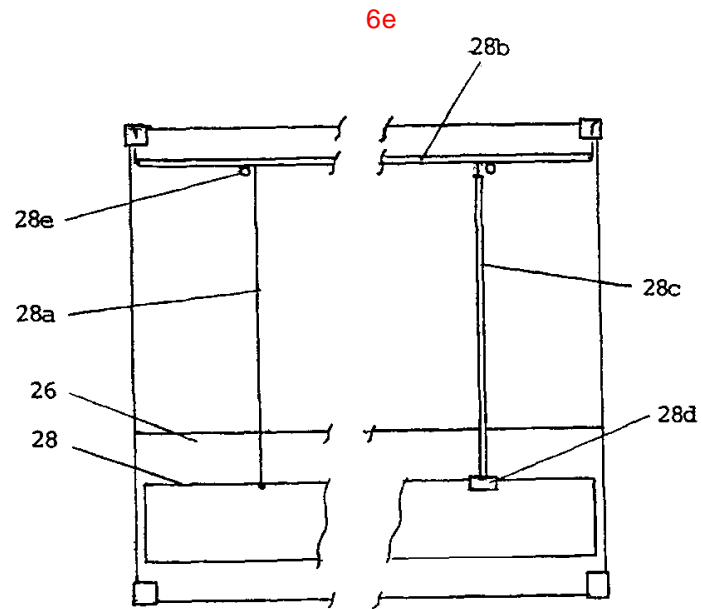




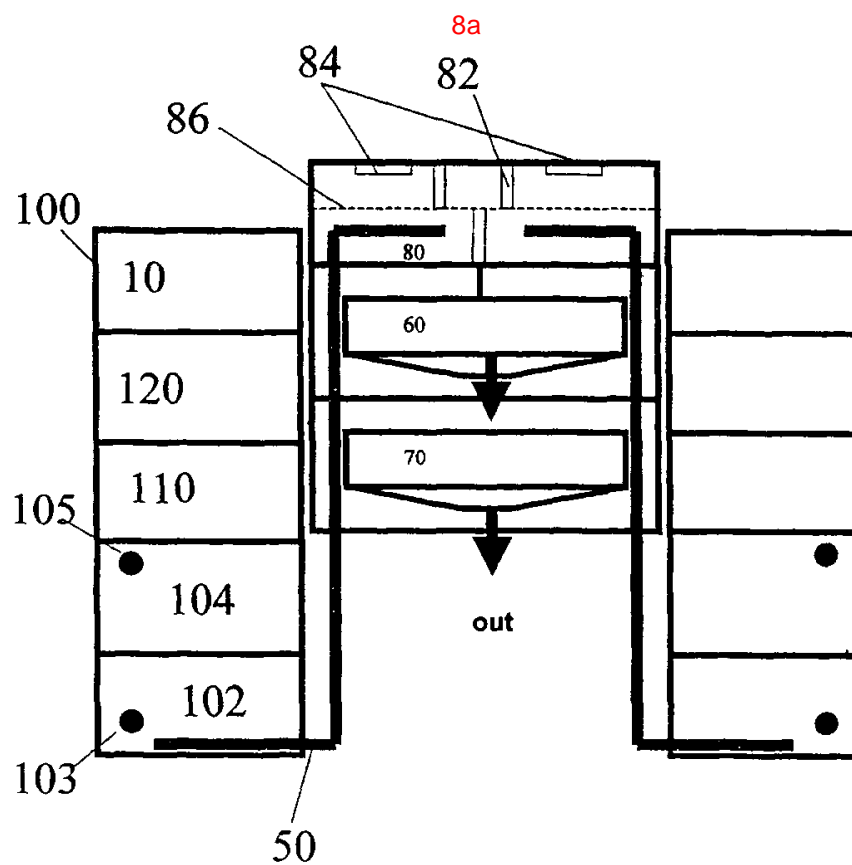
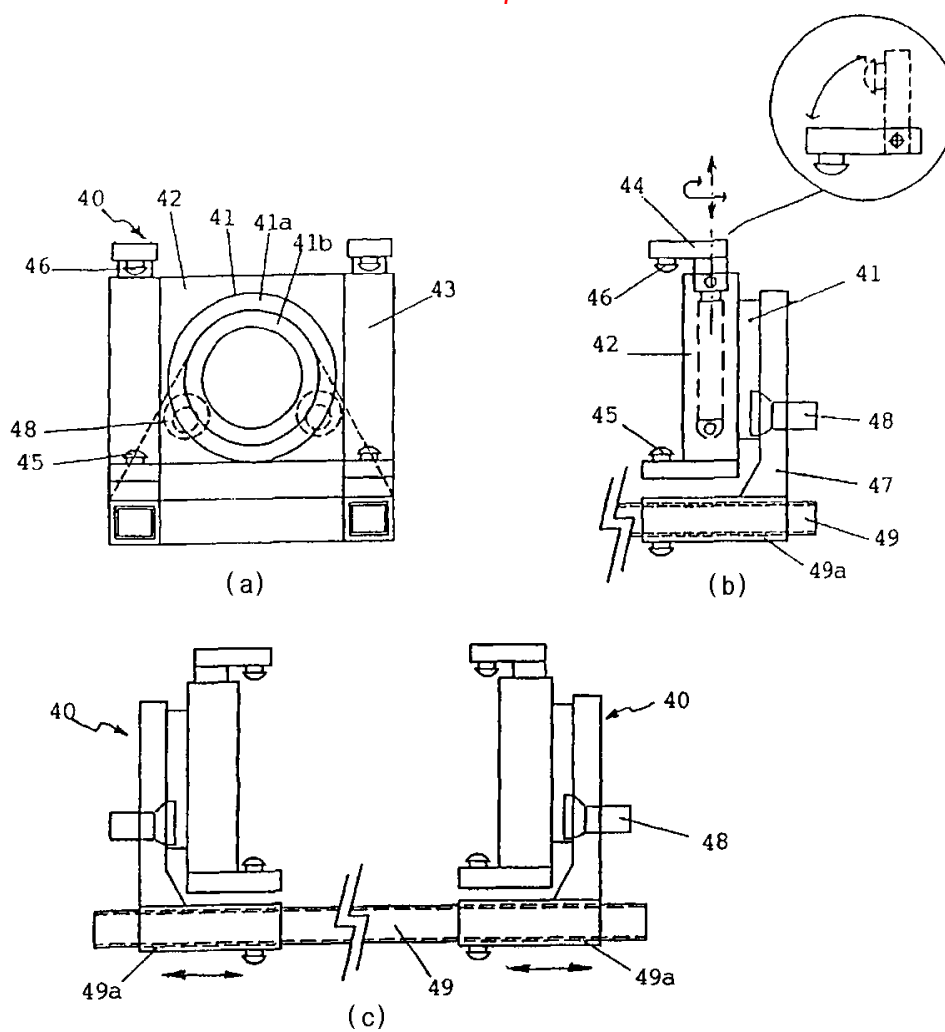


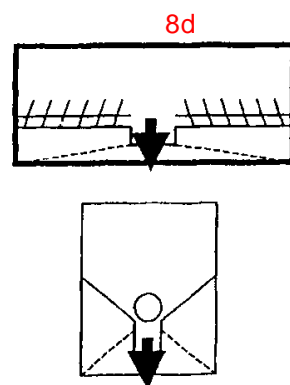
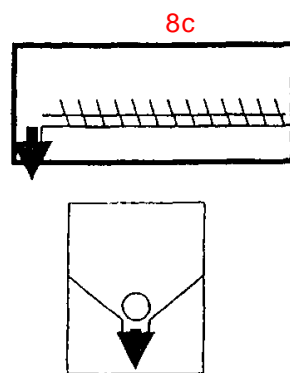
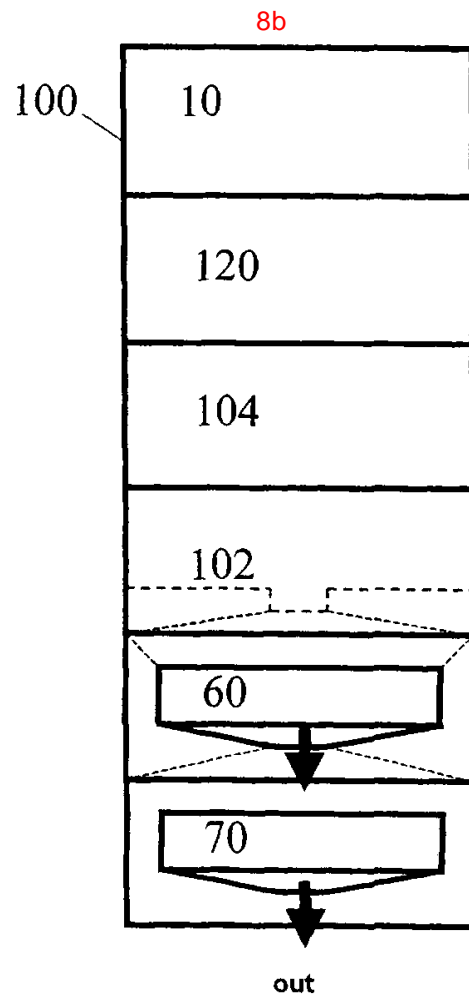




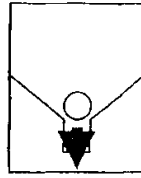
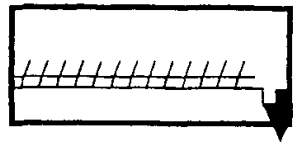


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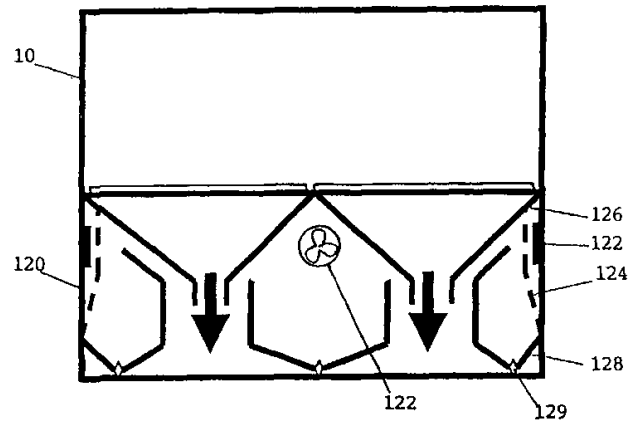




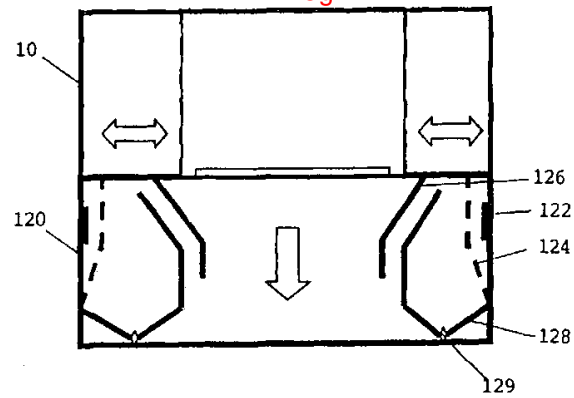
8e

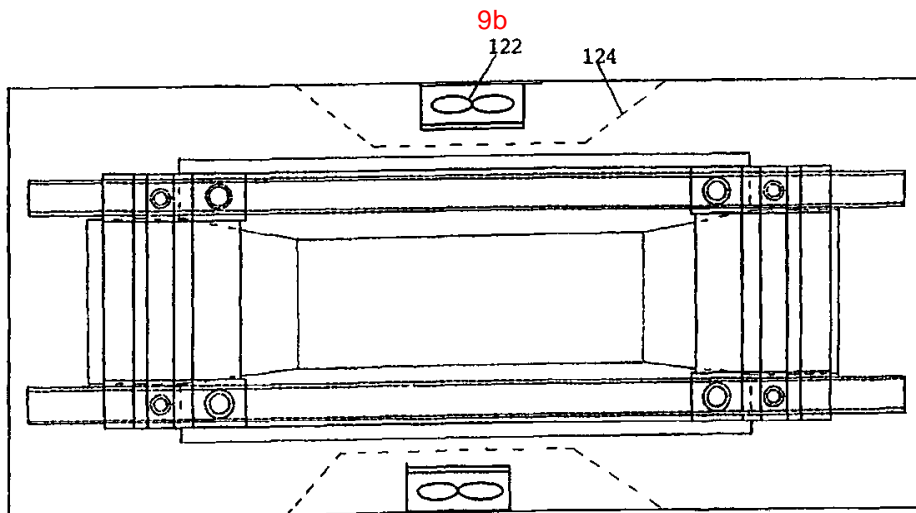
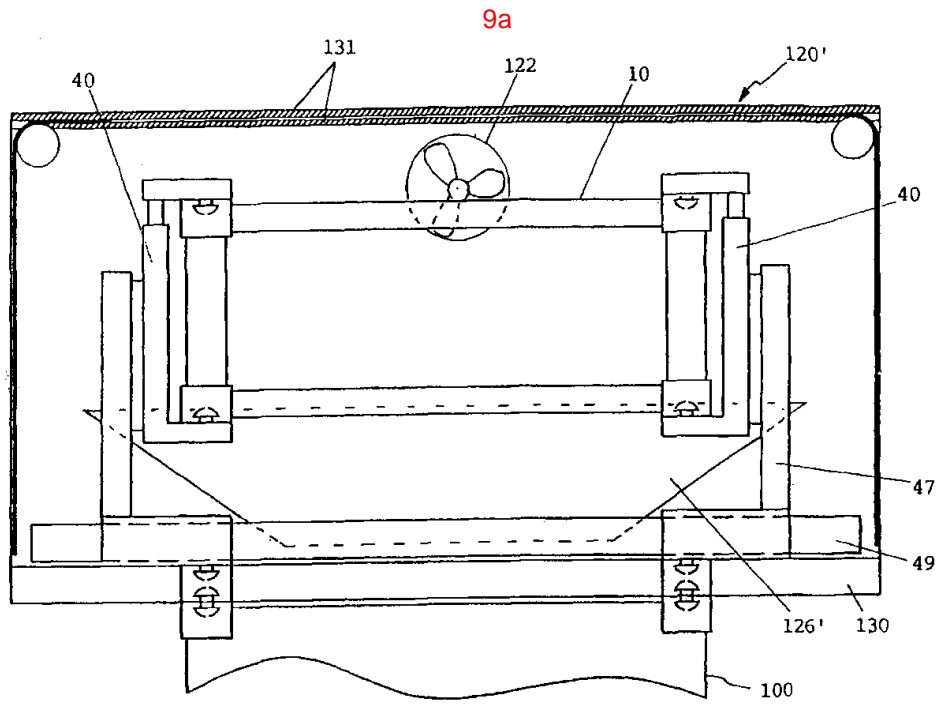


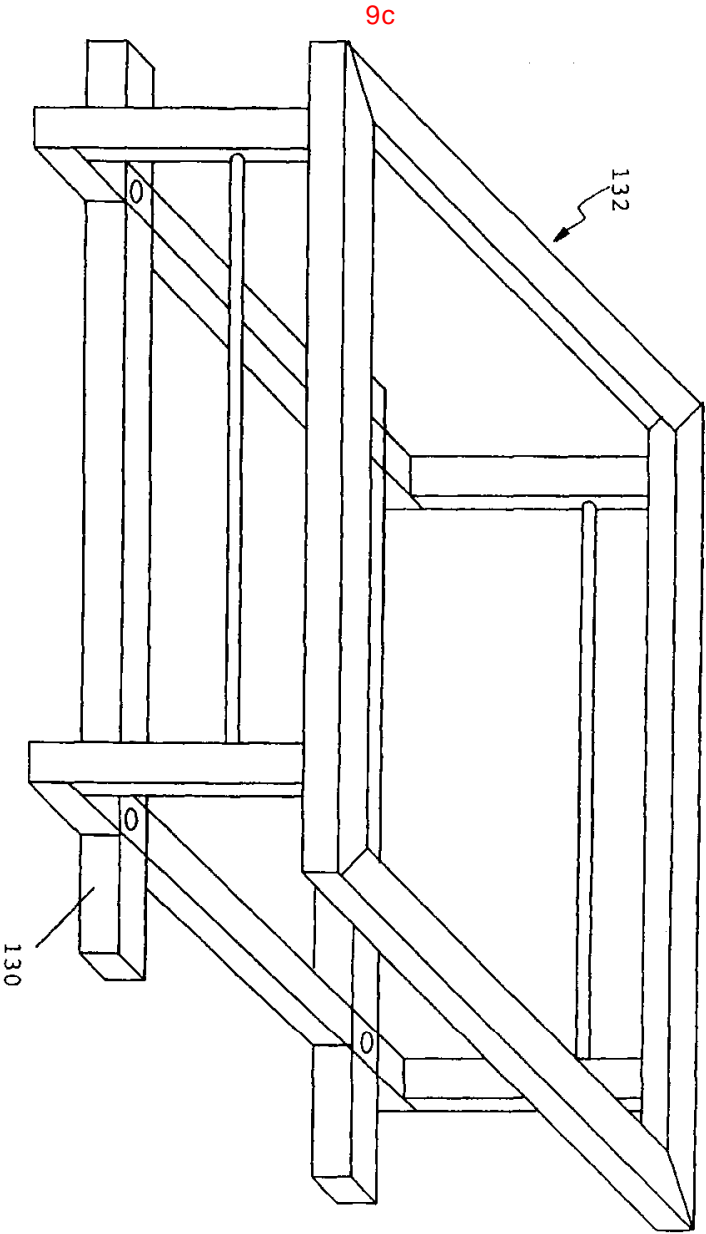
8f

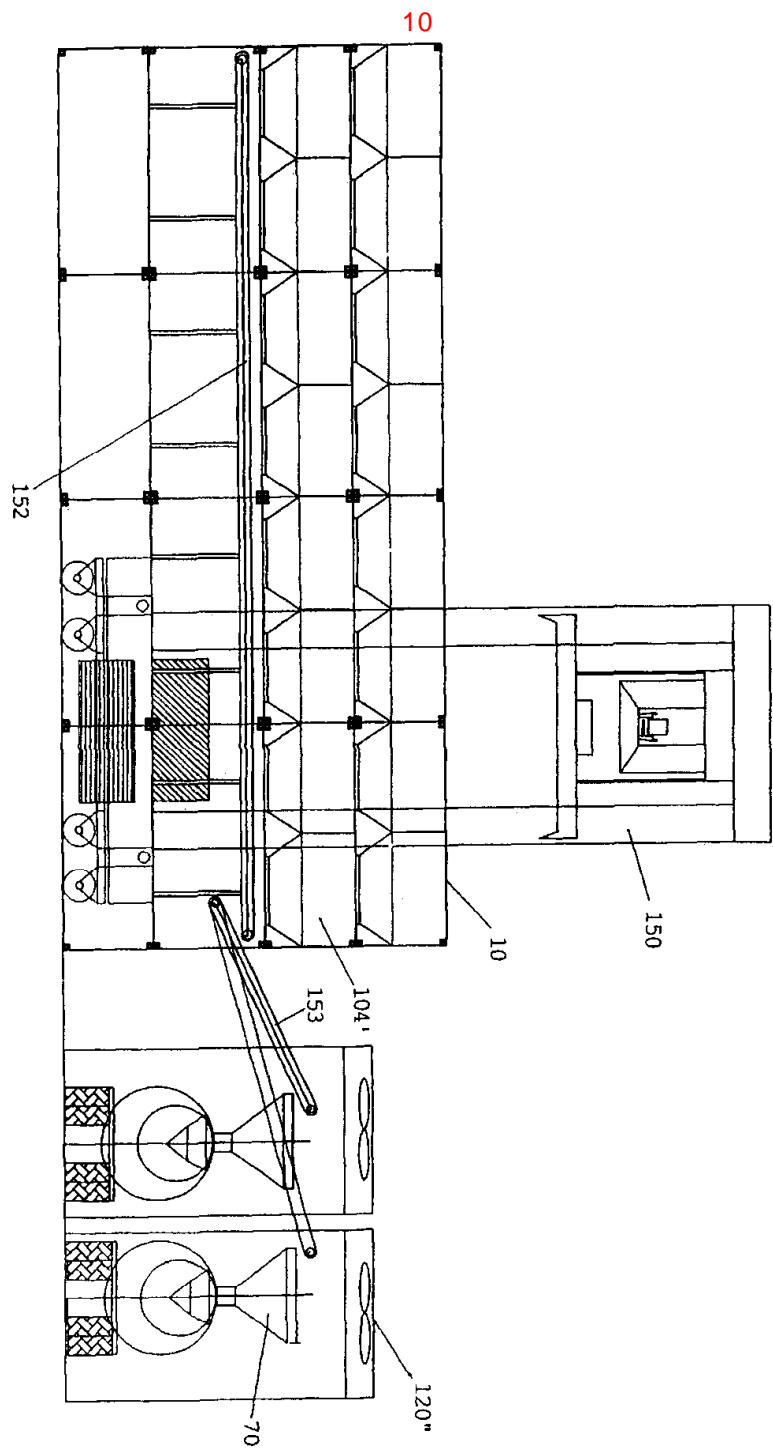


8g

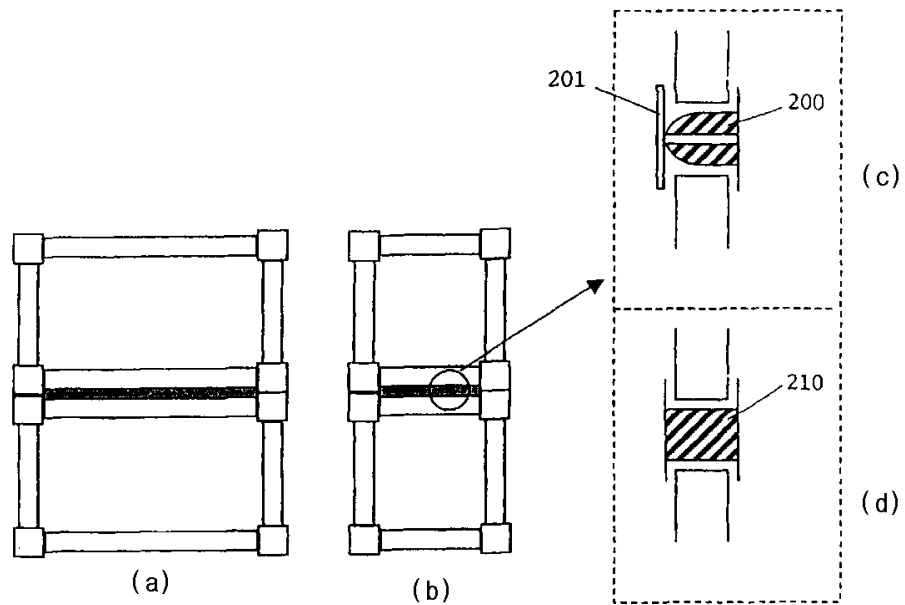








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