

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

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(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)

1

(54)

가 (10) (10) (20) 가 .

5a

(batching)

가
(tipping equipment)

45°
(mess)

(silo container)(

가)

가

(casting)

가 가 ;

가 가 ;

(color pigment) 가 가

가 (limenstone)
가 (pla

가 가

(environmental authorities)

가

(pla

(bed)

가 (concrete mixer)
가

가

(barge)

(spcialised

ship)

(open facility)

가

(mixer container)
1 , 가

(stacking yard)

()

가

가 , 가 , (hinged), 가 ,

, 1 (compartment) 가 , 1
, , , 1
가 . , 1

(slewing) 가 .

1 , , 가
2 , , 가

(stocking chamber) (stocking section):

(scaling section)

가

, 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 ;

(locking and releasing mechanism) (31)

$$(\quad 2d \quad \quad 2e \quad \quad). \quad (31)$$

(, , , / ()
(blending station)

(10') (3a 3b).

(prescaling)

(blending station)

가 4a 4b

(moisture content)

가

()

()

가

가

가

가

가

가

(rack)
(winch)

(pinion)
가

(10, 10')
(10, 10')가
(20)(

() 가

(가)

5a 5b 가

55

가
(10'')

3

(funnel portion)가

50

フ

(29)

(sacrificial cover)(29a)가

(29a)

6b

가

(120)(8a 8b)

(29)

(28)

(120)

가

(120)

6a

6b

가

가

6c
(28)

가

(120)

(29b)
가

8

(29)

(29b)

(120)

(104, 110)

(102)(

6d

6e

(28)

가 , 가

(28a)

가

(28b)

(28b)

(28)

(28)

(28b)

가

(28b)

V

(28d)가

가

(28c)가

(28d)

(28c)

(28)

(28c)

28e)
8e)

(28b)

(lengthwise)

(28e)

(28c)

, 2

4

(2

(28)

(28)

(28b)

(28)

28e 2

6f
(28) 2

가

(28e)

(28e)

가

(28b)가

2

(28)

7a

7c

(47)

(41)

(42)

가

(41)

(41a)

(47)

(42)

가

(48)

(41)

(41a)

(42)

(45)

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

$$\begin{array}{ccccccc} \text{가} & & (42) & & (41) & & (42) \\ & 180^\circ & & , & . & , & 180^\circ \\ 180^\circ & \text{가} & & . & . & . & . \end{array}$$

가 (40) 가 . 2 (40) 가 가 , (49) 가 가 , 가

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

, (102)
 , (103) . 2 () .
 10)가 . 3 .
 (105)가 .

가

(102) 8c 8e

1

) (100) 60 70 , (1 . 8b

(40) . (120') . , (100) (120') . 9a . , 9b

142가
(140,142)
(140)가

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

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

가
가

(57)

1.

가 ,

2.

1 ,

가

3.

1 2 ,

가

4.

1 3 ,

가 2 가

5.

4 ,

가

6.

1 ,

, , ,

가 ,

(closure assembly)

7.

6 ,

,

(swing)

8.

6 7 ,

,

9.

6 8 ,

,

(hook means

)

10.

6 9 ,

,

가

(linkage means)

가

11.

6 10 ,

,

,

12.

11 ,

,

,

13.

11 12 ,

,

,

가

14.

1 ,

,

(discharge chute)

15.

14 ,

,

가

16.

17.
16

18.
17 ,

19.
17 ,

20.

21.
20 ,

22. 1 21 ,

24. 1 23 ,

26.

1 25 ,

가

(locking and securing means)

27.

1 26 ,

가

28.

1 27 ,

,

29.

(slewing) ,

;

가

,

,

;

,

1

가 ,
(fastening means)

, (arm means)

1

2

1 2
2 , 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

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

,

42.

37 41

,

43.

37 42

,

가

,

,

44.

43 ,

가

가

,

45.

37 43

,

46.

43 45

,

,

(exhaust fan)

47.

46 ,

,

(venting space)

(diverting element)

48.

46 47

,

,

가

,

49.

48 ,

,

가

50.

48 49

,

,

51.

37 50 ,

/ (

interfacial seal means)

52.

37 51 ,

, , , , 가 ,

53.

37 52 ,

54.

37 53 ,

; ; ; ;

55.

가 , ,

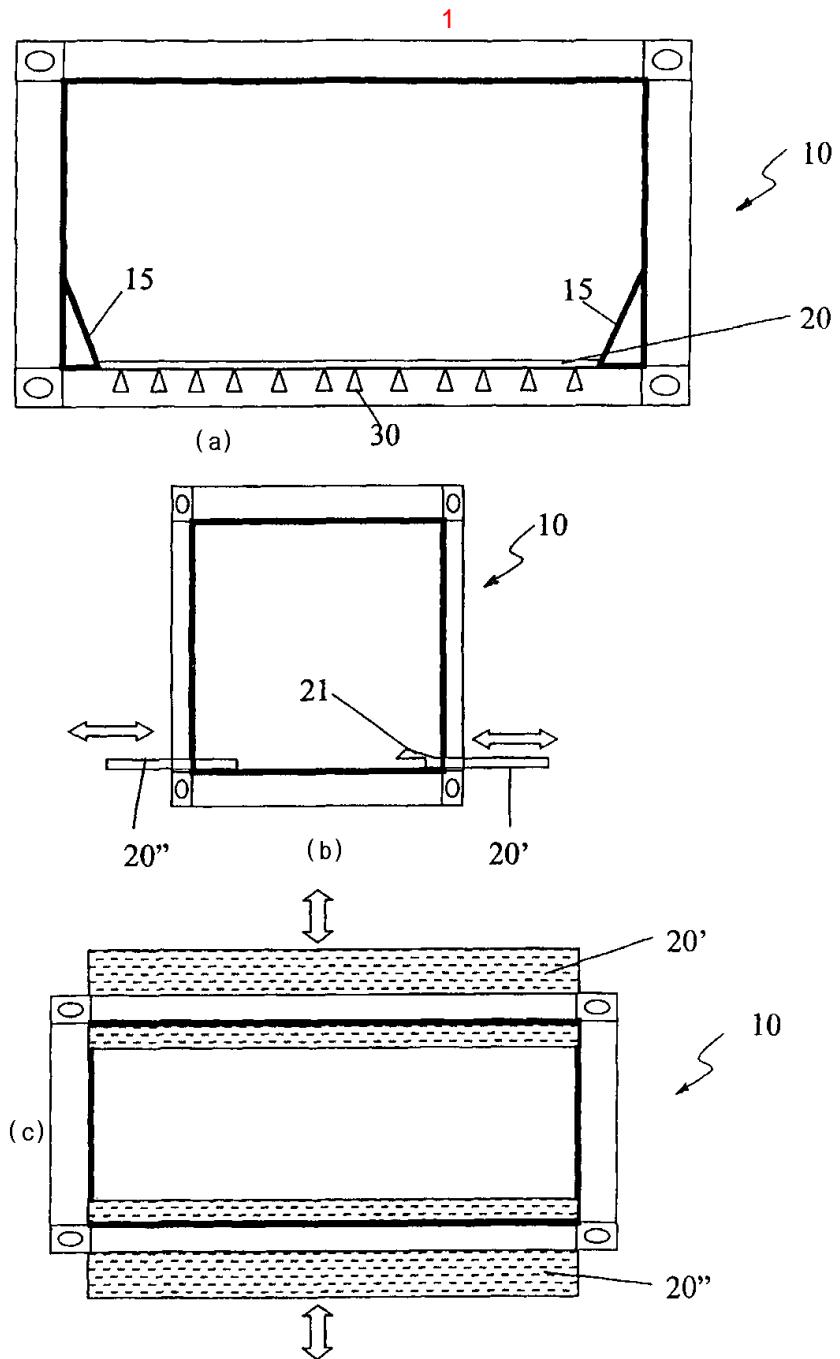
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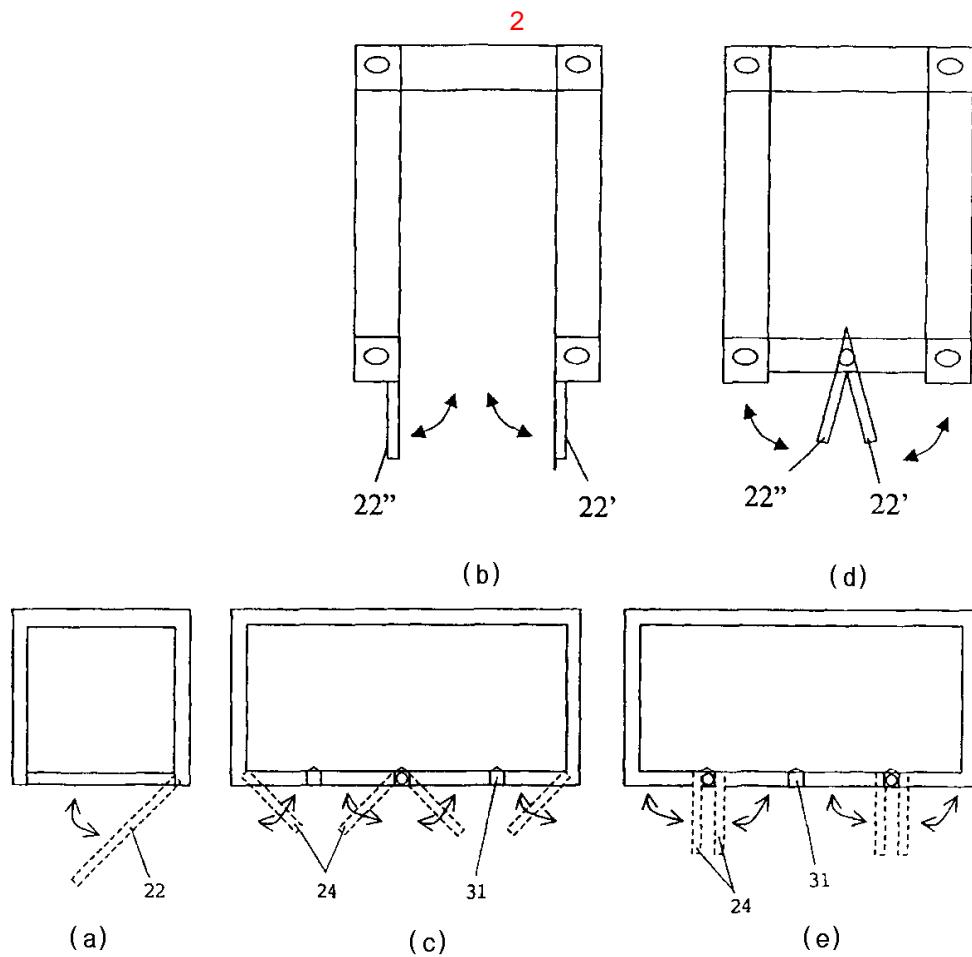
56.

55 ,

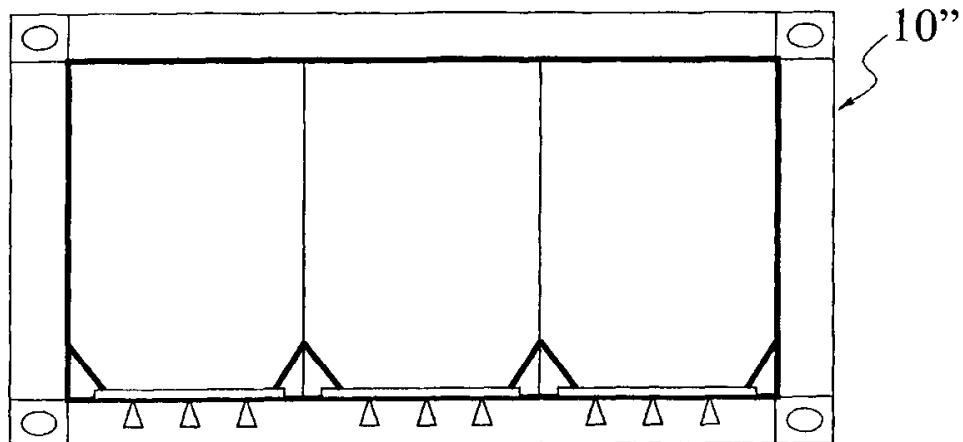
57.

58.

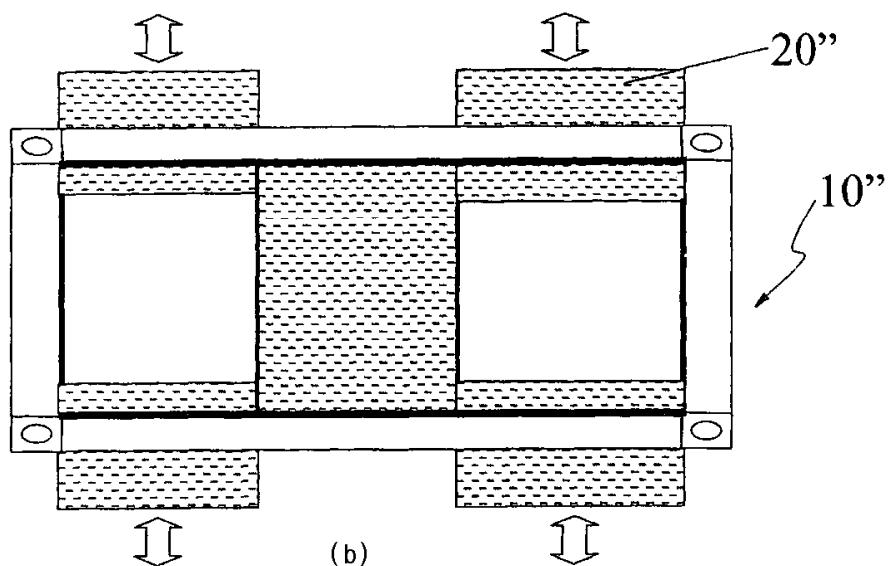




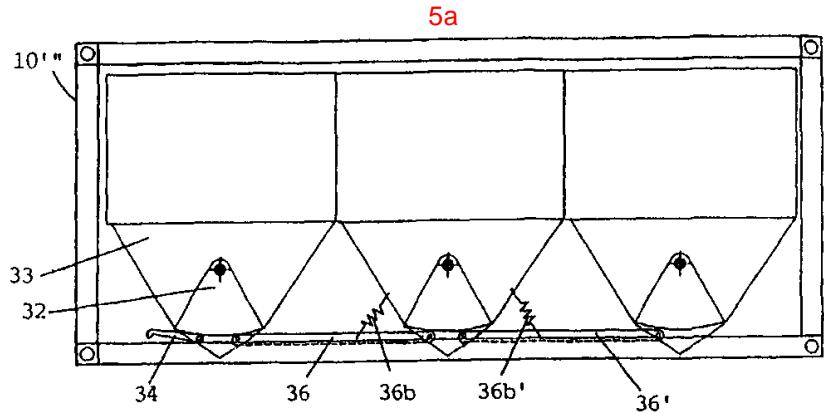
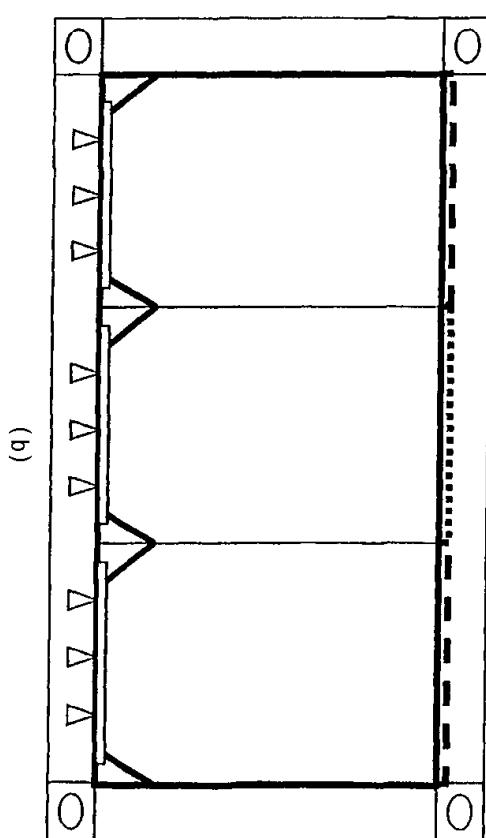
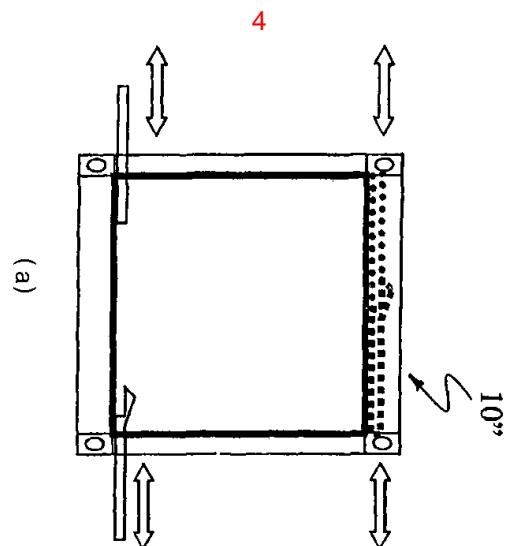
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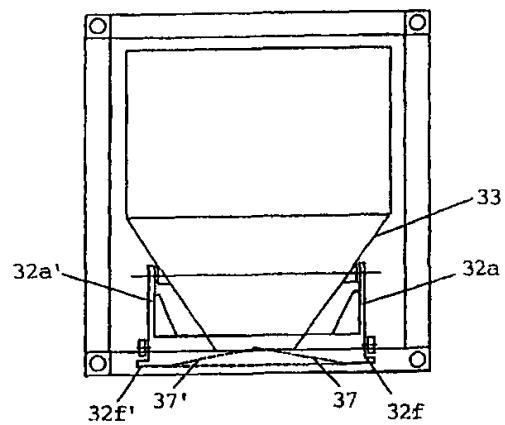
(a)



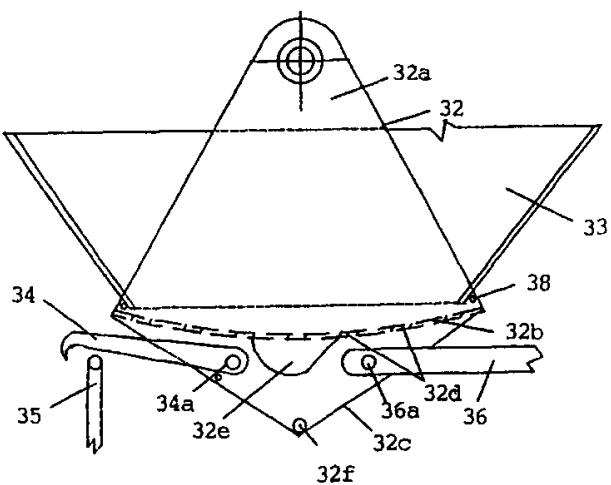
(b)



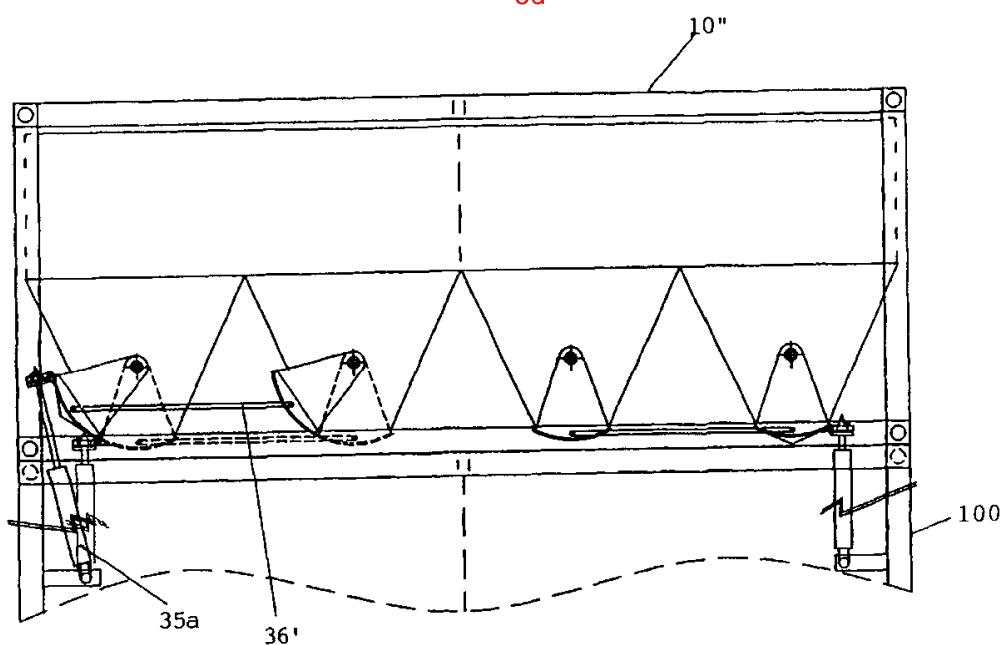
5b

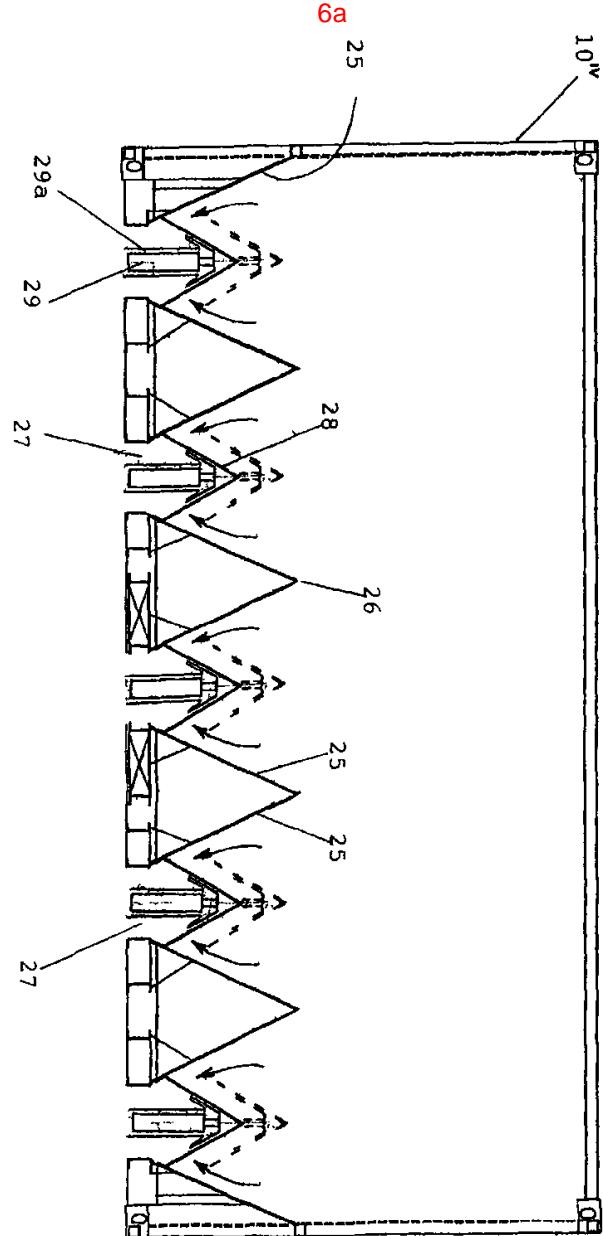
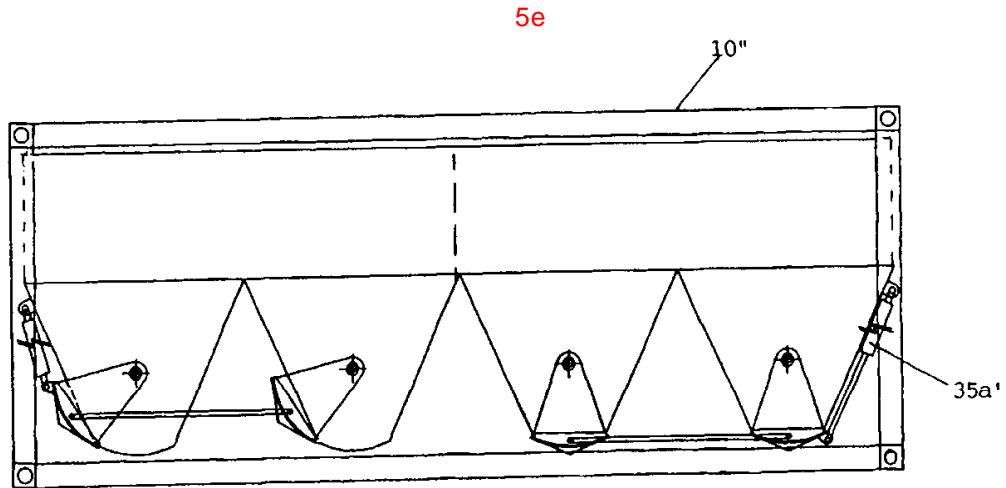


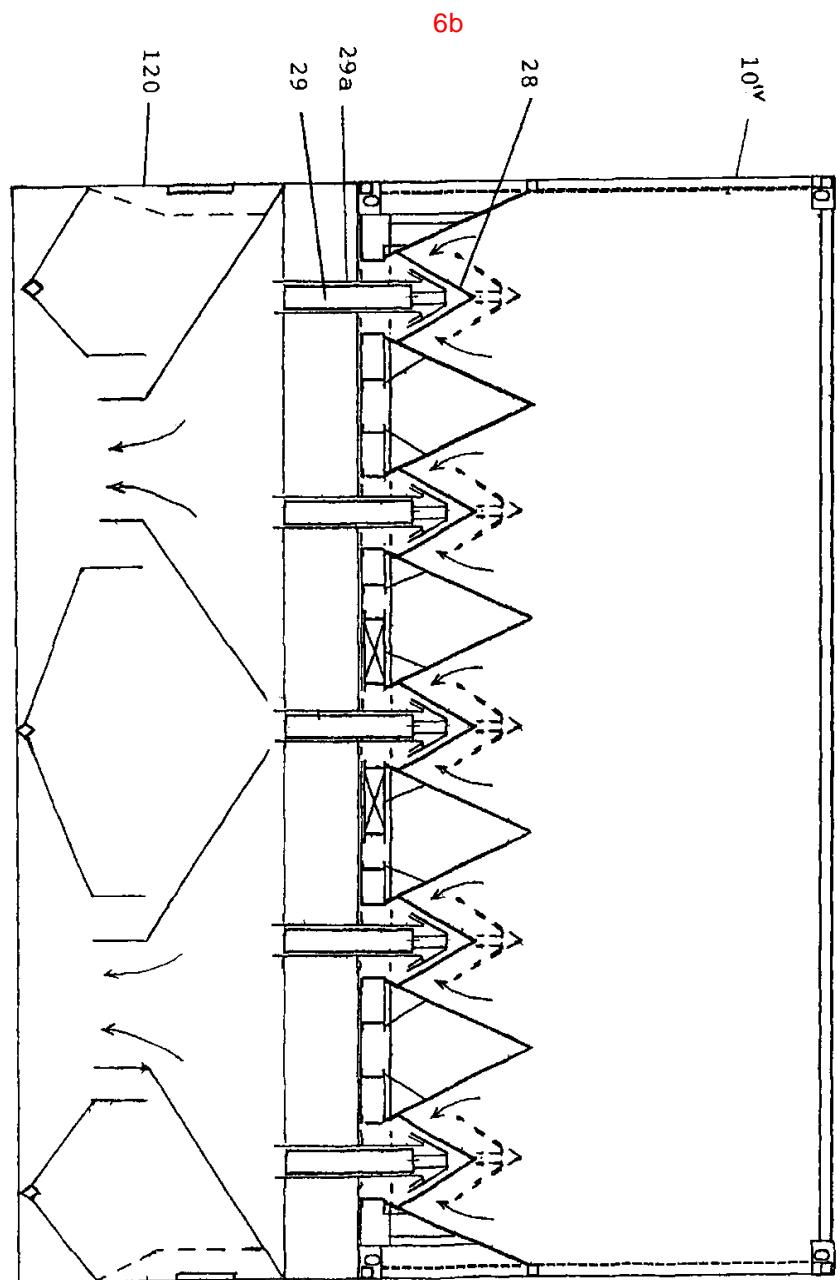
5c

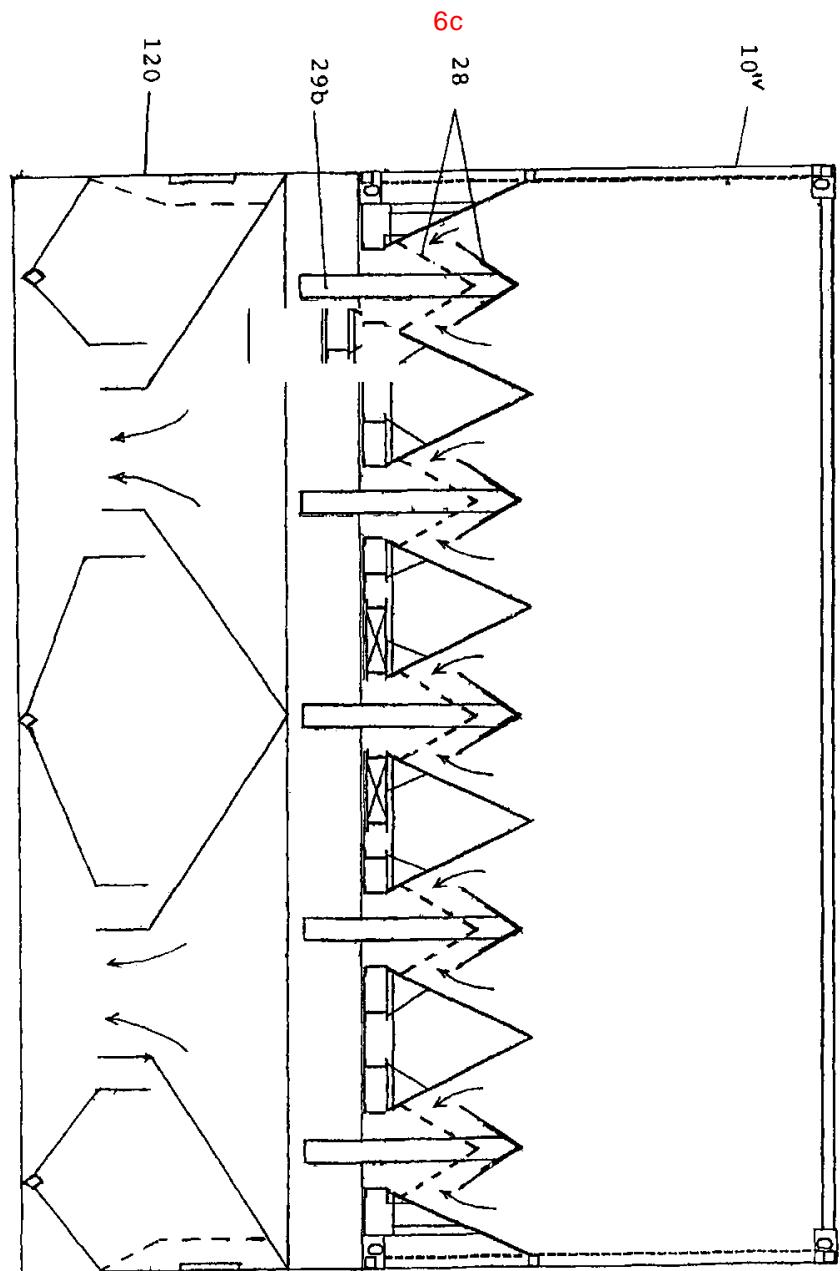


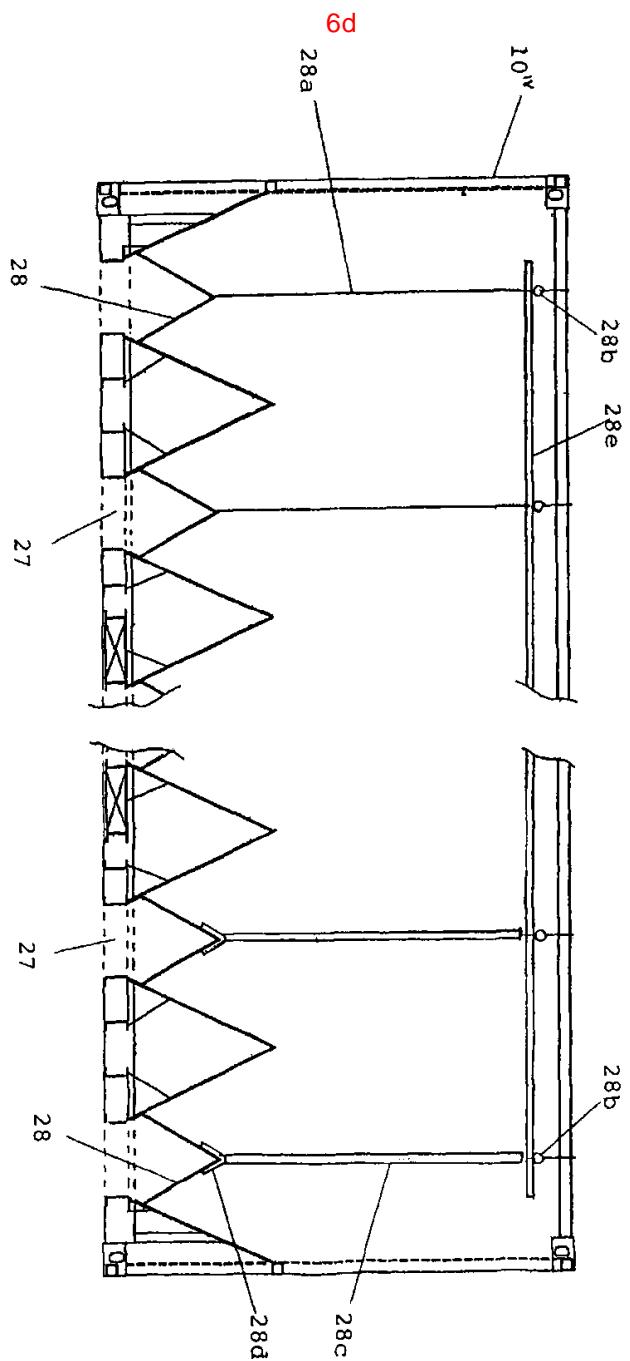
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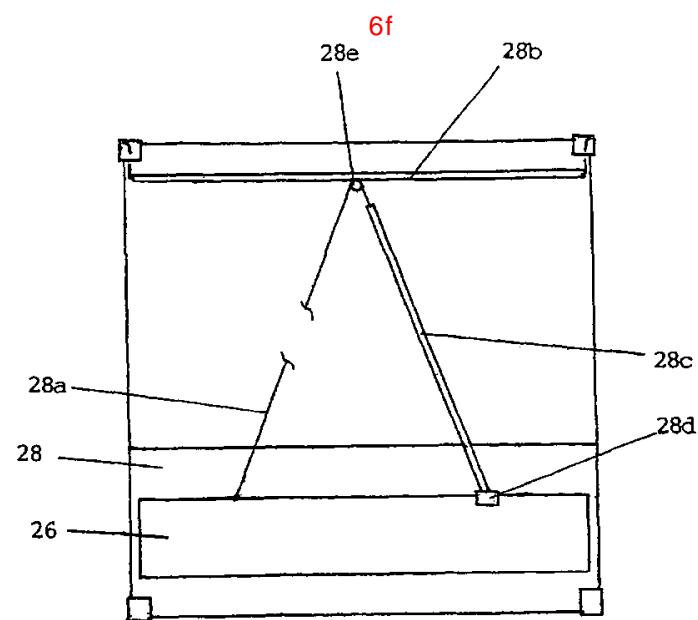
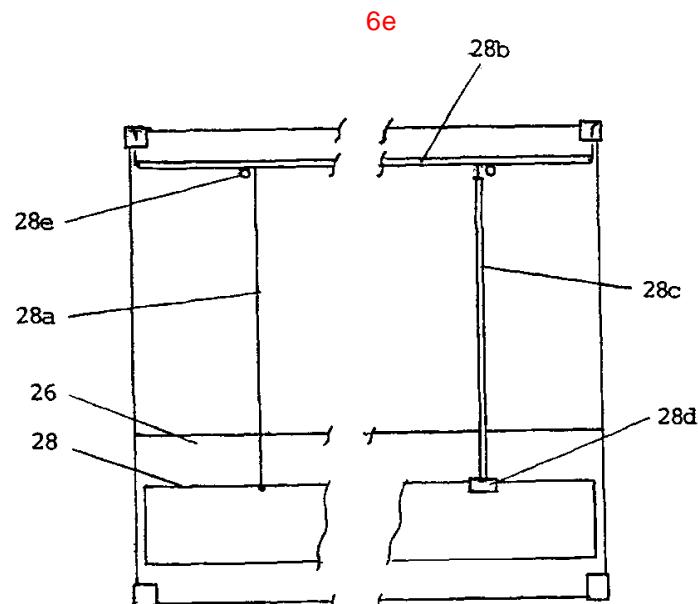




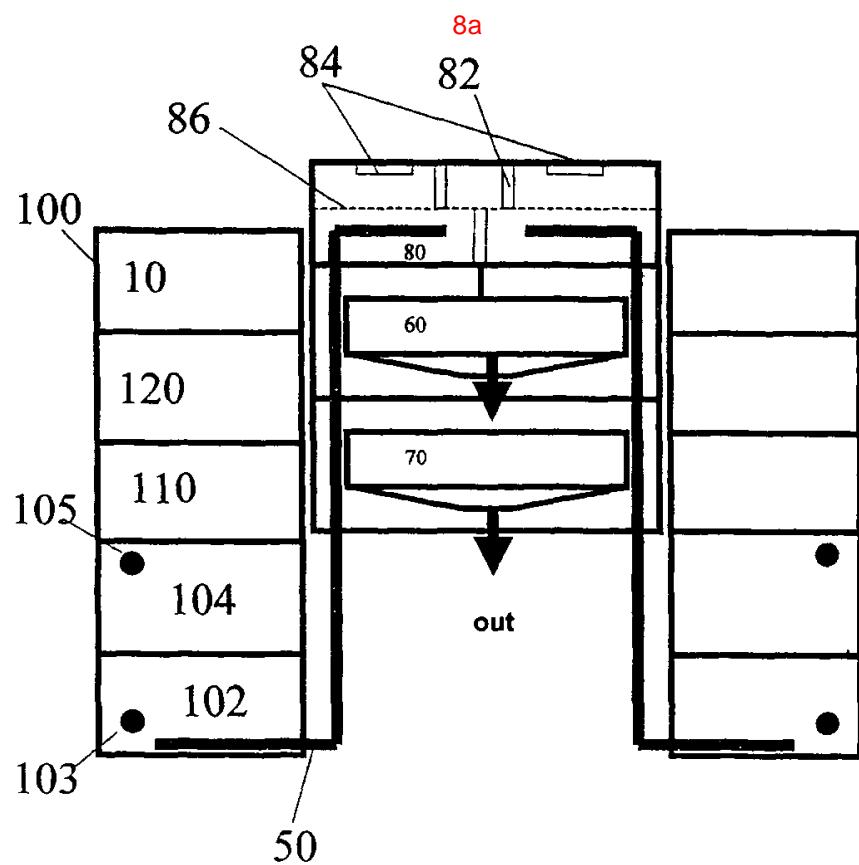
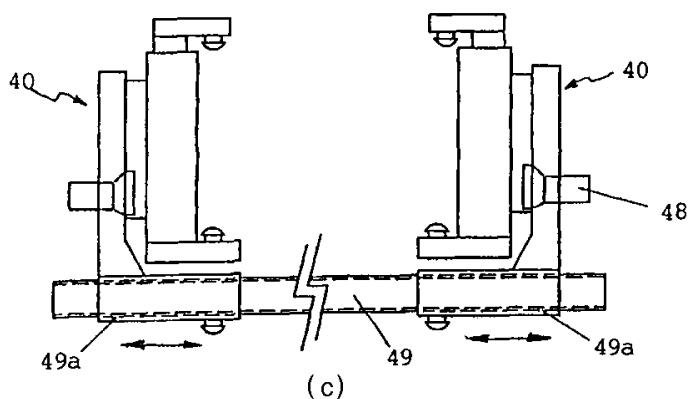
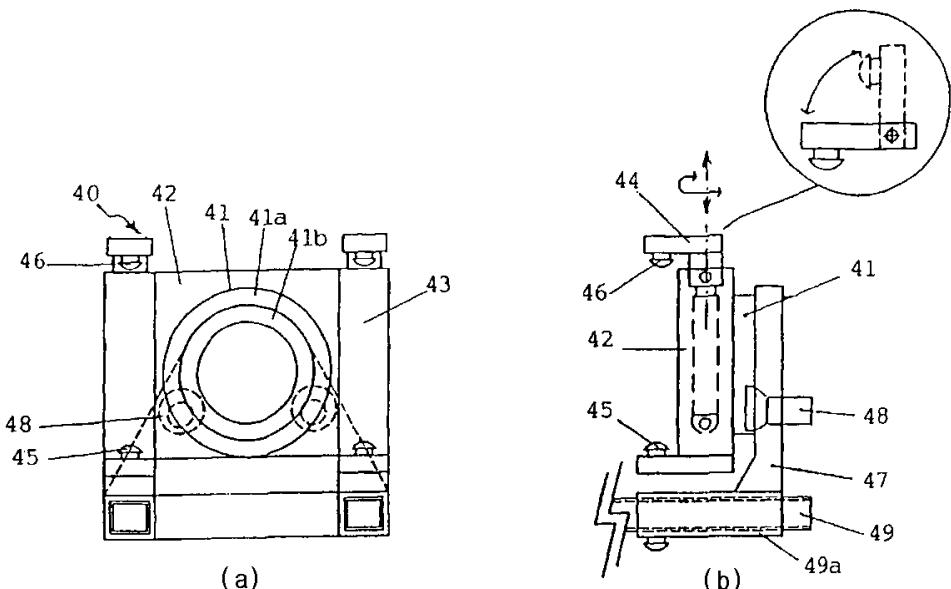


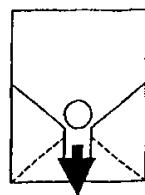
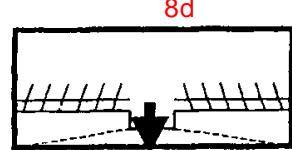
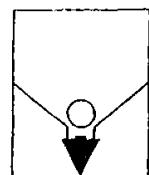
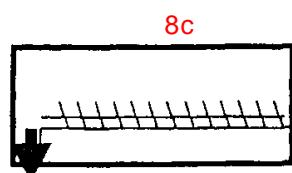
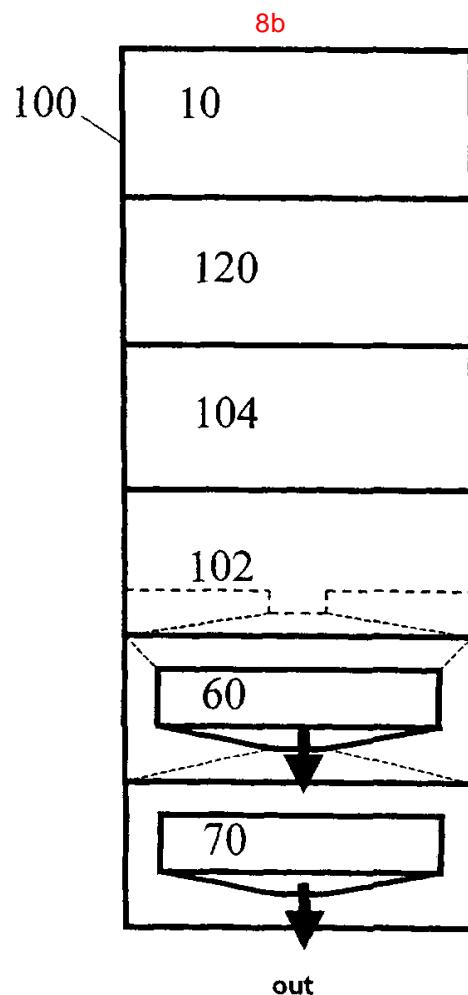


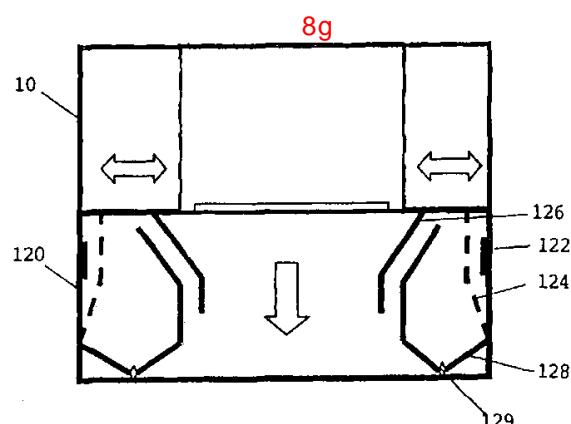
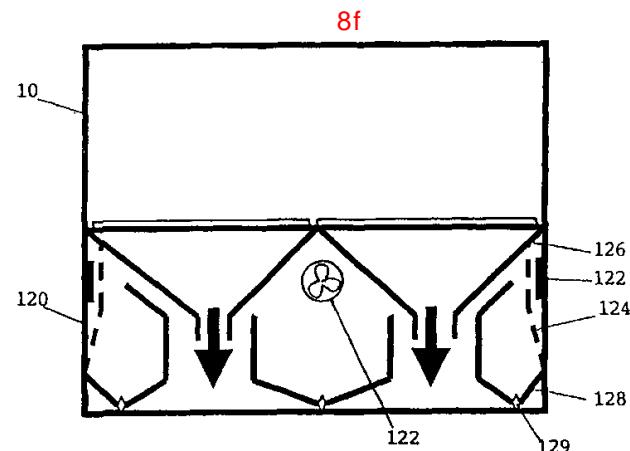
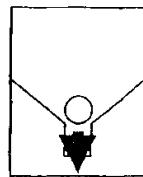
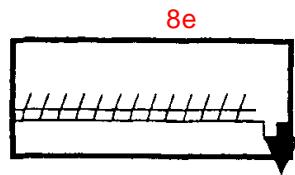


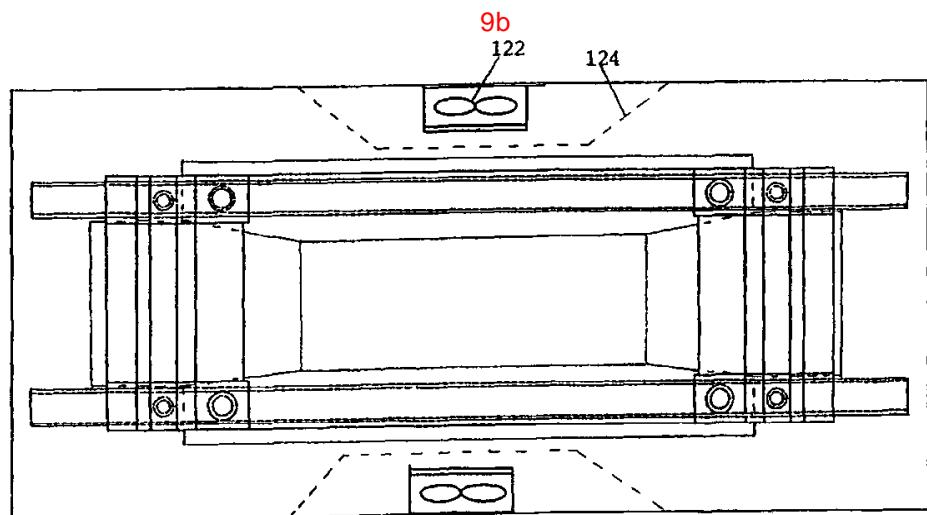
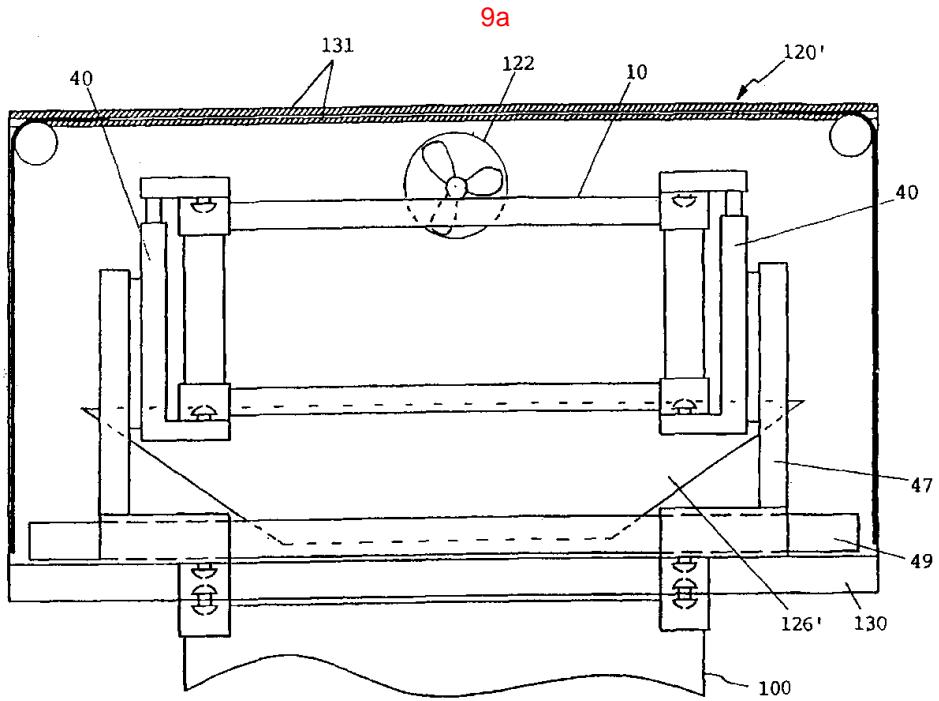


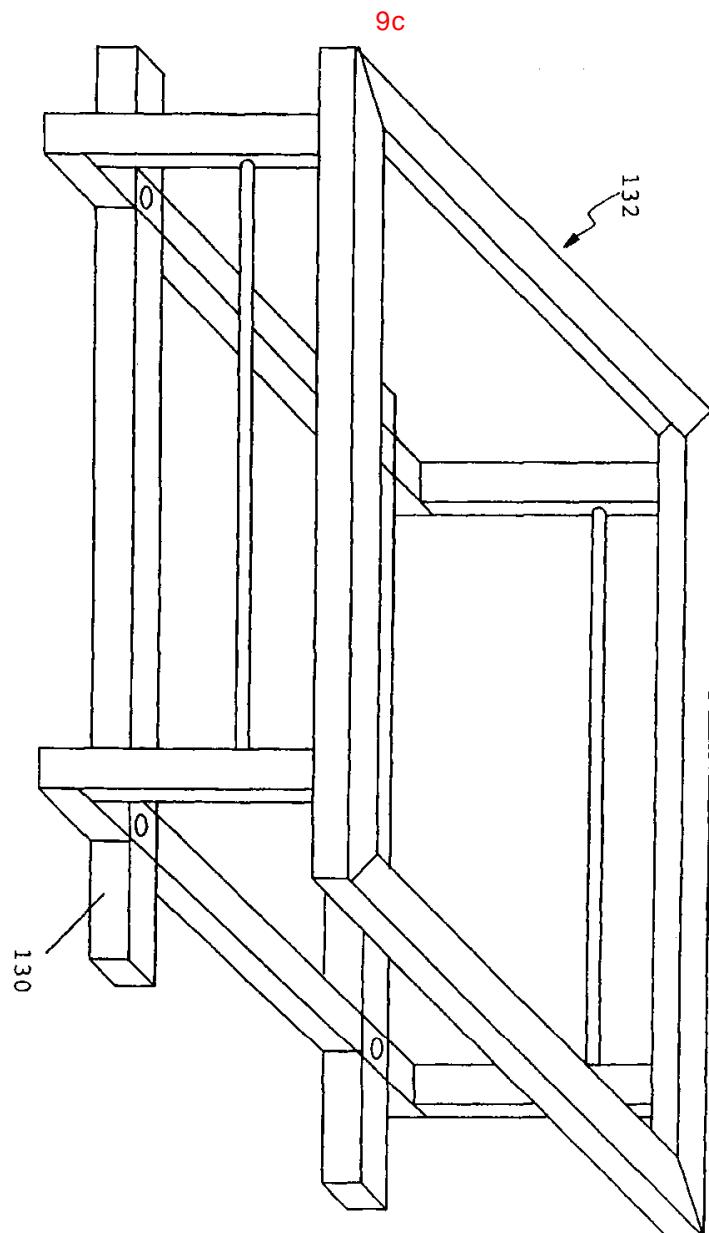
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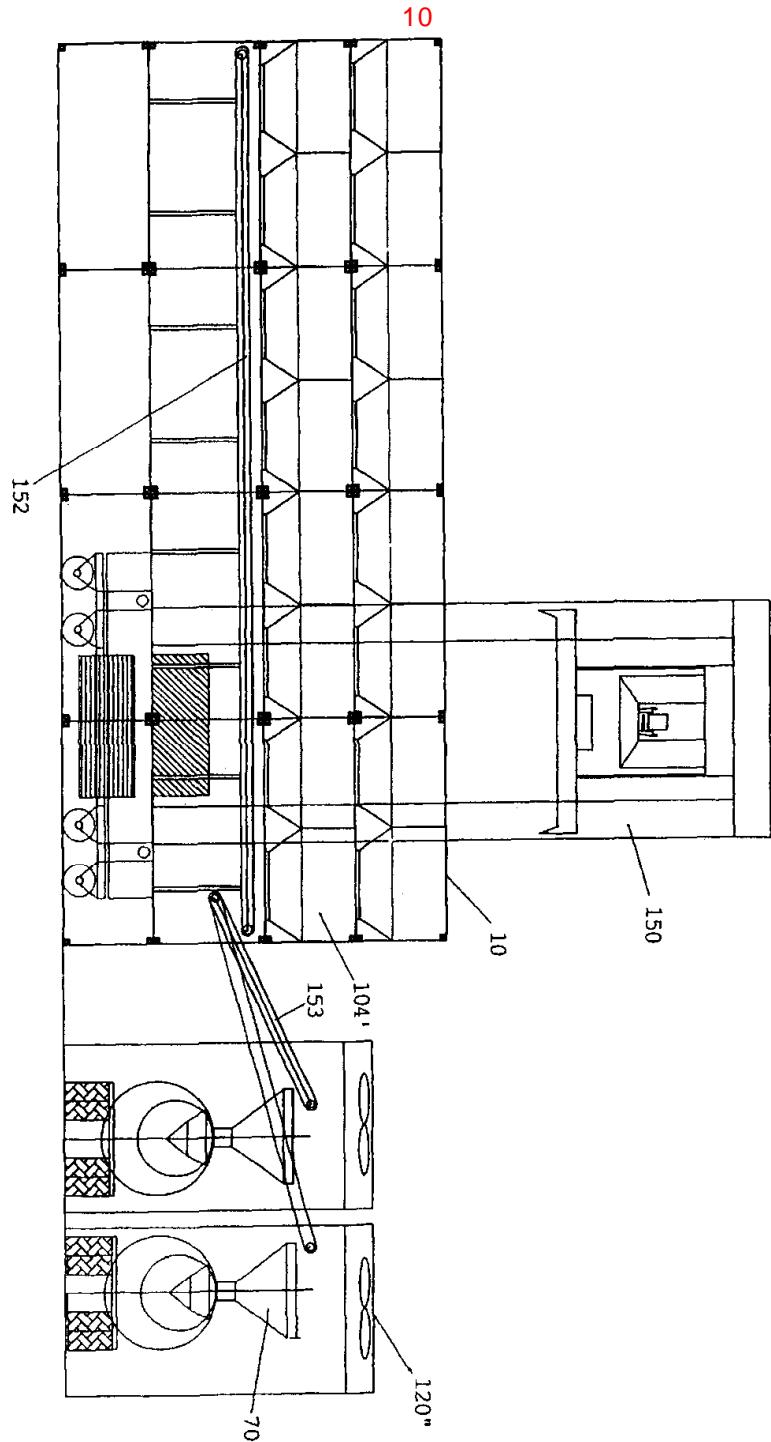












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