

(19)
(12)

(KR)
(A)

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(43)

2002 - 0018162
2002 03 07

(21) 10 - 2001 - 0052964
(22) 2001 08 30

(30) 09/653,617 2000 08 31 (US)

(71)

(14831)

(72) ,40422 , , 173

(74)

:

(54)

(11) (13)
(31) , (11) (13)가 (15), (29) ,

1

, , , ,

1

2 11

12

13

11: (separated pane)

13: (moving sheet or ribbon)

15: (pane engaging assembly)

17: (frame)

19: (sheet engaging assembly)

21: (scoring assembly)

23: (anvil)

25: (scribe)

27: (transporter for scribe)

29: (transporter)

31: (connector assembly)

33: (connecting member)

35: (connecting member)

37: (linear bearing assembly)

37a: (linear bearing)

37b: (linear support rail)

39: (reset assembly)

41: (13) (manufacturing line which produces ribbon)

43: (pane transport system)

45: (pane grippers)

47: (separation line)

49: (stop)

51: \bar{V} sheet

53:

55:

57:

59:

, (edge contact)
 , (moving ribbon)
 , (脆性, brittle) 가

(liquid crystal displays)

, / (scribe/moving anvil assembly) (score line)
 , (trailing edge) (leading edge)

가

(11) \bar{V}_{sheet} W (47) L (13)

(a) L W 가 (15);

(b) (29);

(c) 가 (31)

W (47) L (13) (11) \bar{V}_{sheet}

(a) L W (13) ;

(b) ;

(c) (,) 가

1 (51) (15) (13)

(47) (49) 가 \bar{V}_{sheet} L (21)

(53) (55) (1) (2)

(53) 1 (47)
(4 5) . 가 (31) (29)

(55) 1 (orientation)

(55) (15), (29) (31) (5
12) . /
" (fall)" /

(53) (47) (55) (51)
10% 0 10 ° 0.7mm (55)
(51) (51)

가

가

2 11
(41) LCD
ring line)

(overflow downdraw glass manufactu
(43)

(43)
(edging station),

(grippers)

2 (21) (13) (23),
 (25), (27) / 가

3 (13) (15)
 (17) (19) (17) 13
 (11) W L W' L' (19) 4 (19) 4 (clamp)
 s) 가 가 가

(15) (31) (29) (29)
 (12 (57) (59)) 2 11
 " (fall)" (31) (13) /

12 (17) (31) (29) (35) (37) (37) (37)
 a) (37) 가 (37b) 12

(47) (37b) 가 (17) (29)
 (17) 1
 가 가

12 (39) (37b) (37a) (2)
 (1) (37a) (37b)
 (15 - 25mm) " " 0.5 1

(33)

가 .

(57)

1.

L , \bar{V}_{shear} , W ,

(a) L W 가 ;

(b) , ;

(c) 가 가

2.

1 ,

3.

1 ,

4.

1 , ,

5.

4 , \bar{V}_{shear}

6.

1 , , .

7.

1 , , .

8.

1 , , .

(a) , 1 2 ;

(b) 1 .

9.

8 , .

10.

1 , .

11.

L , \bar{V}_{sheet} , W ,

(a) L W ;

(b) ;

(c) 가 ,

12.

11 , \bar{V}_{sheet} .

13.

11 ,

14.

11 ,

15.

L , \bar{V}_{shee} , W ,

(a) L W ;

(b) ;

(c) 가 , , , ,

16.

15 ,

17.

16 , \bar{V}_{shee}

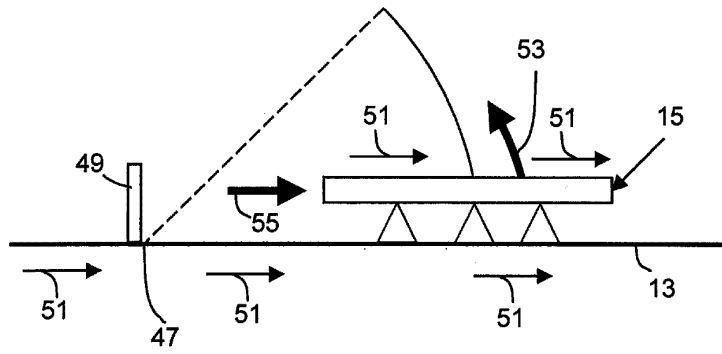
18.

15 ,

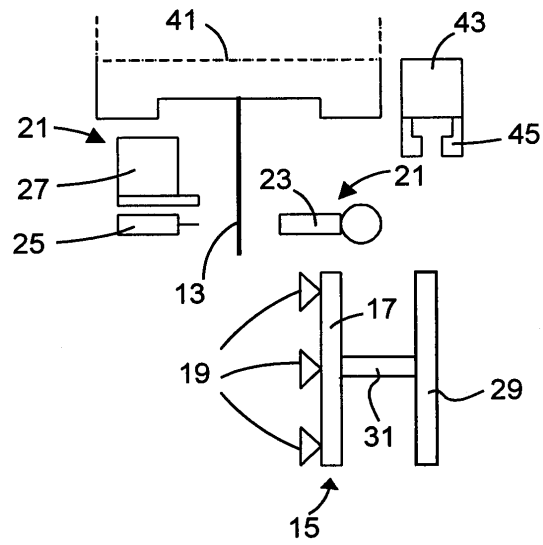
19.

15 ,

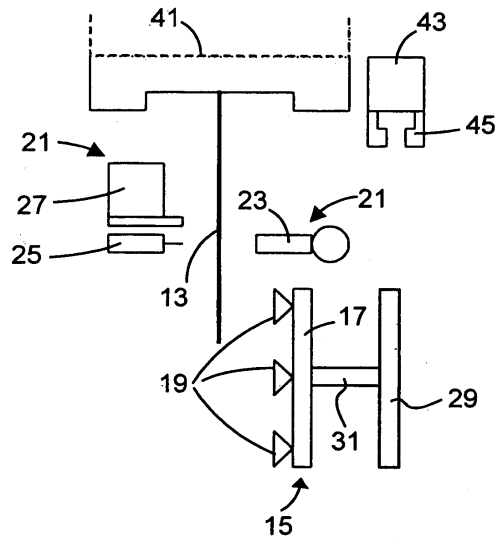
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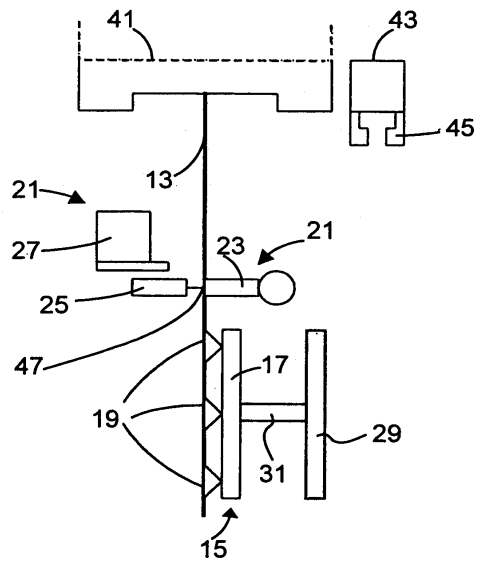
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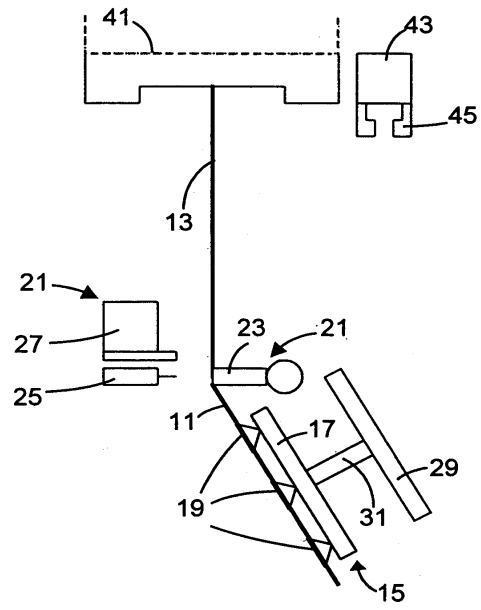
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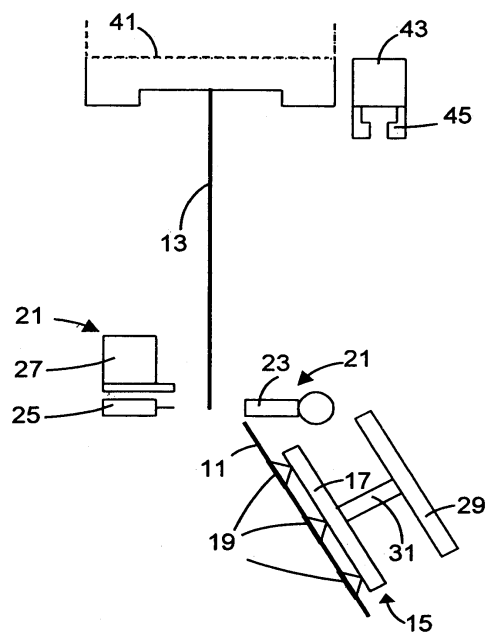
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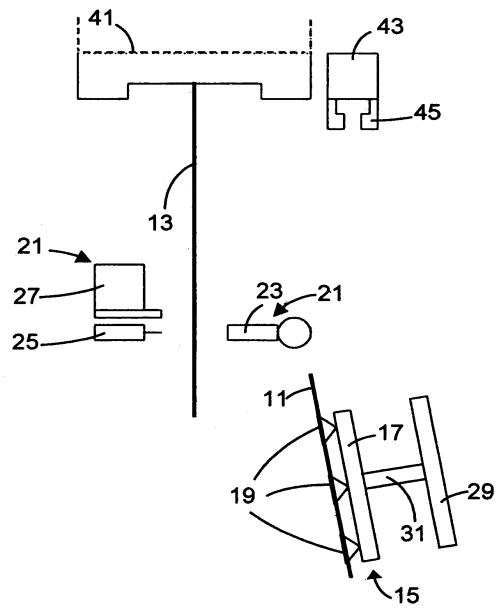
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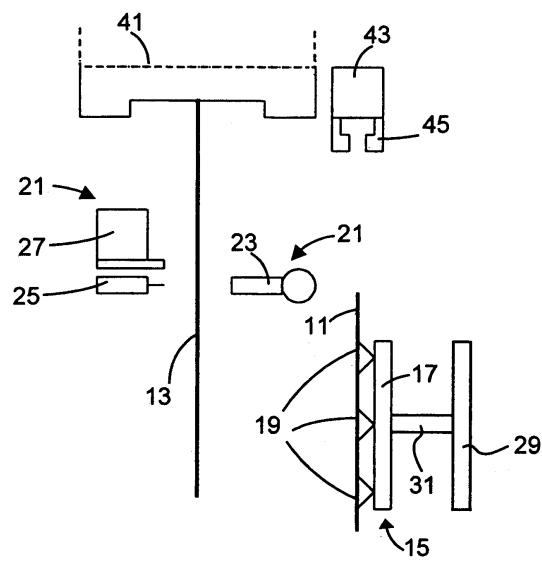
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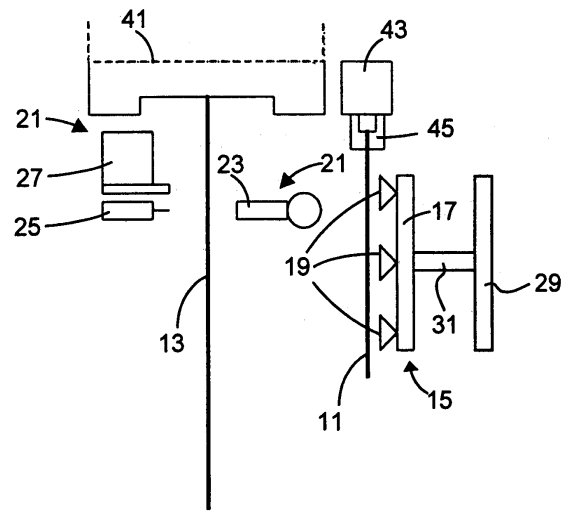
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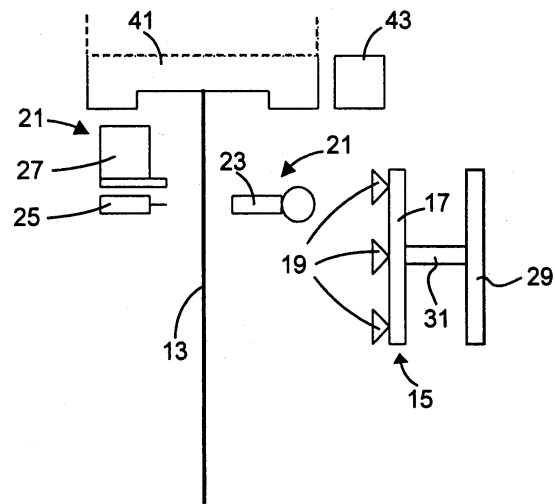
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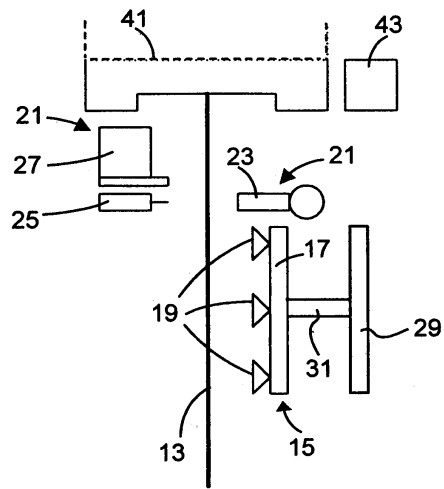
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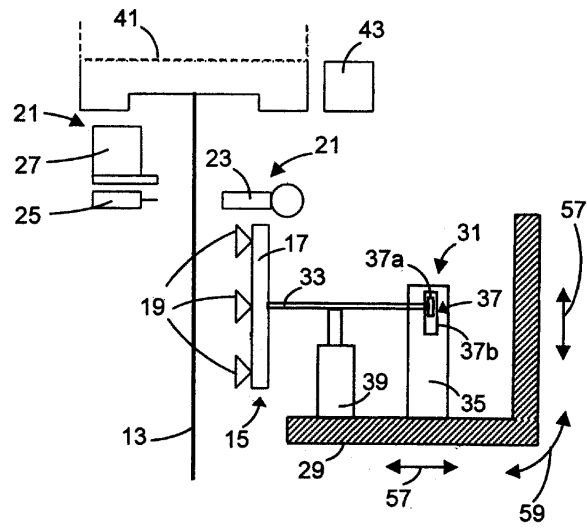
10



11



12



13

