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(12)

(KR)
(A)

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(71) , , 55389, , 34747 17
, , 56304, , 9

(72) , , 55389, , 34747 17
, , 56304, , 9

(74)

:

(54)

1 가 . , 1 2
1 . , , 가

1

1 , .

2 1 2-2 .

3 2 .

4 1 4-4 1 .

5 1 , 1 1 .

6 5 , 1 2 .

7 1 , 7 .

8 1 .

9 7 .

10 1 7 2 1 7 .

11 1, 7 11 3 .

12 가 .

1 : 2 :

5 : 6 :

7, 7a : 10 :

11, 12 : 13 :

14, 27 : 18 : 1

18a : 1 19 : 2

36 : 37, 38 :

41, 51 : 75 :

76 : 77 :

111 : 114, 115, 116 :

(framework)
 - (snap - fit) (wall studs)
 가 (floor) (ceiling)
 5,797,233 , 5,660,012 , 5,394,665 , 5,222,335 , 4,854,096 , 4,805,364 , 3,536,345
 3,852,927

가

가 (framework assemblies)

가

(central stud ridge receiver) (front cam surface),

1 1 , (1) 2 2 가 , ,

1 (6) (7, 7a) (6) (6) (5) (2) (5) 8 24 (1) (5) (6) (7)(((1) (7, 7a) (5)

(1) (7, 7a) (8) (6) (7, 7a) (9) (5) (7, 7a) (1) (7, 7a) (5, 6) " (bottomed out)" (7, 7a) (8, 9)가 가 (7, 7a) (5) 가 (5) (7, 7a)가 7 9 가

1 (11, 12) (11, 12) (10), 1 2 (11, 12) (10) (10) (6) " (13, trough) (6) (13a) (7) (8) (8)가 (10) (13) (13) (13) (13a) " " (6) (5, 6) " " " " (((13) (13a)) , " " " "

1 (11, 12) (11a, 12a) (11, 12) (11a, 12a) (10) (10) (11b, 12b) (6) (11, 12) (14) (6) (6) (15) (14) (14) (11, 12) (14)

가 1 2 (18, 19) , " " , (18, 19) (21)
 가 , (mirror image) (10)

(24b, 25b) 가 (5) (23), (24a, 25a)
 (24, 25) (29, 30) (23) (28) (26a) (26) 1 2
 (27) (5) (6)
 (1) (5) (6)
 (L1) (5) (L2)
 (L1) (13) (11, 12) (L2) (26)
 (24, 25) 1 (1) , L1 = L2

7 , L1 < L2 가

1 (1) (11, 12) ()
 (24, 25)

(7) (1) (7) 2
 2 (7) 1 2 (37, 38) 2
 (36) (1) (37, 38)

(37) (40) (inner projection ridge) (41, stu
 d ridge) (40) (38)
 (42, 43) (40)

(41) (40) (5, 6) (7)
 (14, 27) (41)
 (44) (40) (45, 3) 90° (46,
 3) 270° (44, 3) 1 2 (4
 7, 48) (47, 48) (40) (49) (41)
 가

2 (38) (50) (51) (37)
 (50) (52, 53) 가 (40)
 (51) (55) 3) 90° (56, 3)
 270° 가 1 2 (57, 58) (59) 가 (5
 4)

2 , (7) (60) (61, 62)
 (36) . (36) 가 ,
 (60) (61, 62) .

(5) (11, 12) (7) (42) (52) (7) (6)
 (5, 6, 7) (24, 25) , .

(5, 6) (7, 7a) 가 .
 (7) (5, 6)
 , (7) (5, 6) () .
 가 , .

1. 1 2 () , .
 2. (, 7, 7a) .
 3. (5, 6) , .
 4. .
 5. .
 6. (, 7, 7a)가 , .

2 , 2 , (7) (41) (14) (75),
 . , (7) (51) (14) 가 71 . 70, 71
 , (7) (11, 12) (6) .

1 , (7) (5) , 2 , (6)
 , (5) , .

2 , 70 (7) (6) (18) (41)
 , 71 (19) (51) .

2 70, 71 .

70 (18) , (75),
 (76), (77) (18a) . (1) , (18)
 2 3 , , (7) 3 (1
 1, 12) , (7) , (81) ,
 (81) , (75) (84) (41) .
 (86) (75) , (87)
 (77) , , (11) (12) . 3 (81)
 , (41) (76) , (18) 2
 (11) (76) (41) 가 , 2
 (89a) (7) () .

(51) (19)

() , (18, 19) (7) (81) , (18) (7) (41) ,
(18) (51) (81) (7) 가 (92)
(7)

1 4 , (18, 19) 가 ,
1 , 1 , (18, 19) (18, 19) (6) " "
, (18, 19) (6) 가 ,
(11, 12) (6) (18, 1
9)

1 , (18, 19) 가 ,
, 1 , (18) (11) 1 (18) (11)
, (18) (6) 4 (11a) (11b)
" (18) (97) , "
4 3 () ,
(18) 0.25 (11a) , 0.25 0.75 (11)
() (18) 0.25
0.25 8 (11) (11b)

" " (18) (11) , (14) , ((
(6))) (((5))) (7) (7)
(100) . (100) (7) , ((
(1) " " (14) , ((
(6))) (((5))) (7)
(101) , (101) (7)
,
, (100) ()
, (101)

, (18,19) 4 4 , (1
1) (18) , 4
. 4 , (18) (7) (11) 4
" " " (memory)" " (rest)"
(18) " " " (11) (7)
, (6)
, (18)

, 4, (18), (18a), (75), (76)
 (77), (75) (1), (7)
 (84), (84), (18)
 (84), (11) (< 90°, A1)

4, (18), (111) 가 (18a), (112)
 (18a), (18) " " (112)
 가 (18a)
 (84), (76) 3 (114, 115, 116)
 (76), (120) 가, 3 (114, 115, 116) (12, 1)
 (11), (11) (97) (120)가

(84) 가 (111) (76)

, 3 (114, 115, 116) (114), (115) (116)
 (114) (111) 가 (76) (116)
 (111) 가 (76) (115)
 (114, 116) (76) (118, apex)

, 가 (114, 115, 116) "
 " < 180° () (115), 125
 (114), 126 (116), 127 4
 (114, 115, 116) 가 (125, 126, 127)

, (125) 20°, 15° 25°
 가 (126) 80°, 75° 85° 가 (5, 6)
 (127) 100°, 95° 105° 가
 (0.0247 0.1084) 12 25
 " " 가

(7), (75)
 (75)

1. (111) (41) (7) (11)

2. (84) 2 (A1) 15°, 30°, 18° 25°
 가

(84) 가 , , (A1) (11) (41)
 0.25 , 0.25 (84) 1 (111) (114) (84)
 4 (A2) 170° 178° , 171° 175°
 4 , , (76) (76)
 2 , (130, 131) (41) (41)
 , (18) , (130) (11) (76) (41)가 ,
 , (76) (41) (76) , ,
 (76) 0.1 , 0.2 .
 , (77) , 4 (76) (142)
 (77) (144) , , (5, 6)
 (75) , 1.25
 (11) , 0.75 , 1.5 , 1
 , (144) (18) (11)
 , 1 2 (18) (7) , , 2
 (89) 가 , , 1 (13)
 0) (18) .
 5 , 1 가 , (200) (206) (202, 203)
 (18, 19) , (202, 203) (201) (206)
 (207) (208) , , 가 (206)
 (202, 203)
 6 , (225) (228, 229) (226, 227) , ,
 28, 229) , (228, 229) (230) . , (2
 , (231)
 5 6 1 4 가
 가
 , (7) (5) (6) 가 , (7)
 . (5, 6) (7) (1) , (5) (6)
 1 .

1, L2)) , (5, 6) , (13a, 26a) ((, (L
3 , , 1.5 ,
(1)가 , 가 , ,
(6) , , (7) (5, 6) (5)
가 , , 가 , (5)
5,471,805 5,755,066
가 가 가
(307) 7 300 (300) (301), (302)
(302) 1 (301) 1 (14) (314)
307) 1 (7) (27) (327) (314)
7 (300) 1 (1) 1 , 7
(L1) 7 (L2)
1. (307) (301) ,
2. (302) (307)가 (302) (327) , (320)
(307) (321) (302) (323) (301)
, (300) , (320) 0.25 ,
0.25 8
(342) (L1) 가 , (302) (L2)
21) (340) (5) (100, 1) (341)
(323) (320) , (340) 가 (307) (3
(301) , 가 가 가 가 , 1 (6)

, 8 . 8 , (420) (417) 가 (1)

421) (420) (423) (7, 7a) (40) ((dry wall) (420) (424) (6) (417) (421) (5) (425)

(445, (436) (435) (441) 9 (440) (7) (441) 8 (417) (302) (451) (435) (440) (450) (7) (302) 7) (7) (302) 가

10, 11 12

가 10 가 가 가

10 (501) (503) 1 2 (504, 505) (501) (502) (510, 511) 10 (500) 가 1 7 (503) 10

50) (551) (552) 11 (550) 11 (5) (551) (553), 1 2 (554, 555) (552) (552) (556) (551) (555) 556 11 1 7 10 11

11 5 (202, 203) (206) (556) (558)가 11 (556) (558) (559)

1 11 () 12 (600)가 4 (18

a) . 12
 . 12
 , , .

가 ;

, 가 (Steel Stud Manufacturer's Association)
 . 가 8 40 .

1.25 , 1.25 3 2 2 .

2.5 6 , 1.625 12 ,

1.625 12 12 25 .
 3 2.5 6 .

0.25 , 0.25 ((, (11a)) ((, (97))
 0.75 .

, (97) 1.125 , 2.5 .

5 , - (non - slip) 2.5 , , 1.2
 , 가 1 가 가 0.5 , , 8

가 . 8

가 , 3

가 , , .

, 가 ,

(57)

1.

(7) (2) ,

(a) 1 (11),

(b) 1 (18) ,

() 1 1 (111)

(A) 1 , (A1) (84),

(B) 1 (120), 1
 1 (76) 3 (114, 115, 116) 1 (18a) 1
 (14)

2.

1 ,

(a) 1 (18a) (84) 1 15° (A1)

3.

2 ,

(a) 1 (18a) (76) 15° 25° (1
 25) (115) 가 .

4.

3 ,

(a) 1 (18a) 1 (11)

5.

3 ,

(a) 1 (18a) 1 (11) .

6.

3 ,

(a) 1 (11a) 가 ,

(b) 1 (18a) 0.25 1 (11) .

7.

1 ,

(a) 1 (11) 2 ,

() 1 (14) 1 (18) 2 (19) (15)

(A) 3 (114, 115, 116) 1 (1) (1
20) 1 (18a) (76) ,

(B) 2 (19) 가 2 , 2

(1) 2 ,

(2) 2 , 1 2 , 2
2 3 2

8.

7 ,

(a) 1 (18) 1 (18a) 1 (11) ,

(b) 2 (19) 2 2 (12) .

9.

8 ,

(a) 1 (18a) (84) 1 (11) 15° 30° (A1)

(b) 2 2 (12) 15° 30°

10.

9 ,

(a) 1 (18a) (84) 0.25 가 ,

(b) 2 0.25 가 .

11.

10 ,

(a) 1 (18a) (76) ,

() 75° 85° (126) 가 (114),

() 15° 25° (125) 가 (115),

() 95° 105° (127) 가 (116) 가 ,

(b) 2 ,

() 75° 85° 가 ,

() 15° 25° 가 ,

() 95° 105° 가 가 .

12.

11 ,

(a) 1 (18) 1 (18a) 0.75 가 , 1 (11)
(144) 1 (76) (77) ,

(b) 2 (19) 1 0.75 가 , 2 (12)
2

13.

12 ,

(a) 1 (18a) (77) 170° 178° (A2)
1 (11) ,

(b) 2 170° 178° 2 (12)

14.

13 ,

(a) 1 (18a) 1 (11) (11a) ,

(b) 2 2 (12) (12a)

15.

14 ,

(a) 1 (18a) 0.25 1 (11) (11a)

(b) 2 0.25 2 (12) (12a)

16.

1 (2) (1) , ,

(a)() (11a) 가 1 (11),

() 1 (18) 1 (14) 1 (6),

(A) 1 (111) 가 1 (18a) , 1 ,

(1) 1 , (A1) (84),

(2) 1 (120), 1

1 (76) 3 (114, 115, 116) ,

(b)() (36),

() 1 (40),

() 1 , 1 (41)
(7),

(c)() 1 (18) (76) 1 (41)

17.

16 ,

(a) 1 (6) 1 (11) 2 (12) ,

(b) 1 (14) 1 (18) 2 (19) (15) ,

(A) (15) 2 (19) 2 (12) 가 2
 , 2 ,

(1) 2 (12) ,

(2) 1 (11) 2 , 2
 2 2
 3 .

18.

17 ,

(a) 2 (5), 1 (6) , 2 (5) , ,

() (23) 1 2 (24,
 25),

() (28) 1 (27) ,

(A) (28) 1 (29) 가 , ,

(1) 1 (24) ,

(2) 2 (25) , 1 1
 1 1 1
 3 1

(B) (28) 2 (30) 가 2 , 2

(1) 2 (25) ,

(2) 1 (24) 2 2 , 2
 2 2 2 2
 2 3

(b)() 1 2 (24, 25) ,

() 1 (29) 1 (41) , 2
 (30) 2 (7)

19.

18 ,

(a) (5) (6) 0.5 .

20.

16 (1) , ,

(a) (11a, 12a) 가 1 2 (11, 12), (15) 1 (14) (2) ,

() 1 (18) (111) 가 1 (18a) ,

(A) 1 (11) , (A1) (84),

(B) 2 (12) (120), 1
1 (76) 3 (114, 115, 116) ,

() (15) 2 (19) 가 2 , 2

(A) 2 (12) ,

(B) 1 (11) , 2
2 2
3 ,

(b)() (36),

() 가 1 (40) 2 (50),

() 1 2 1 (41),

() 2 1 2 (51) (7)

(c) 1 2 (8) ,

(d)() 1 (41)가 1 (18) ,

() 2 (51)가 2 (19) 1 (15)

(e)() 2 (12) 1 (18) ,

() 1 (11) 2 (19) 1 (15)

(f)() 1 (41)가 1 (11) 1 (18) , 1

() 2 (51)가 2 (12) 2
2 (19) ,

21.

20 ,

(a) (6) (2) ,

(b) (24a, 25a) 가 1 2 (24, 25), 1 (27) (5) 1 2 ,

() 1 (29) 가 1 , 1 ,

(A) 1 , ,

(B) 2 1 , 1 1
3 ,

() (27) 2 (30) 가 2 , 2 ,

(A) 2 , ,

(B) 1 2 , 2 2
3 ,

(c) 1 2 (24, 25) (9) ,

(d)() 1 (41)가 2 (27) 1 (29) ,

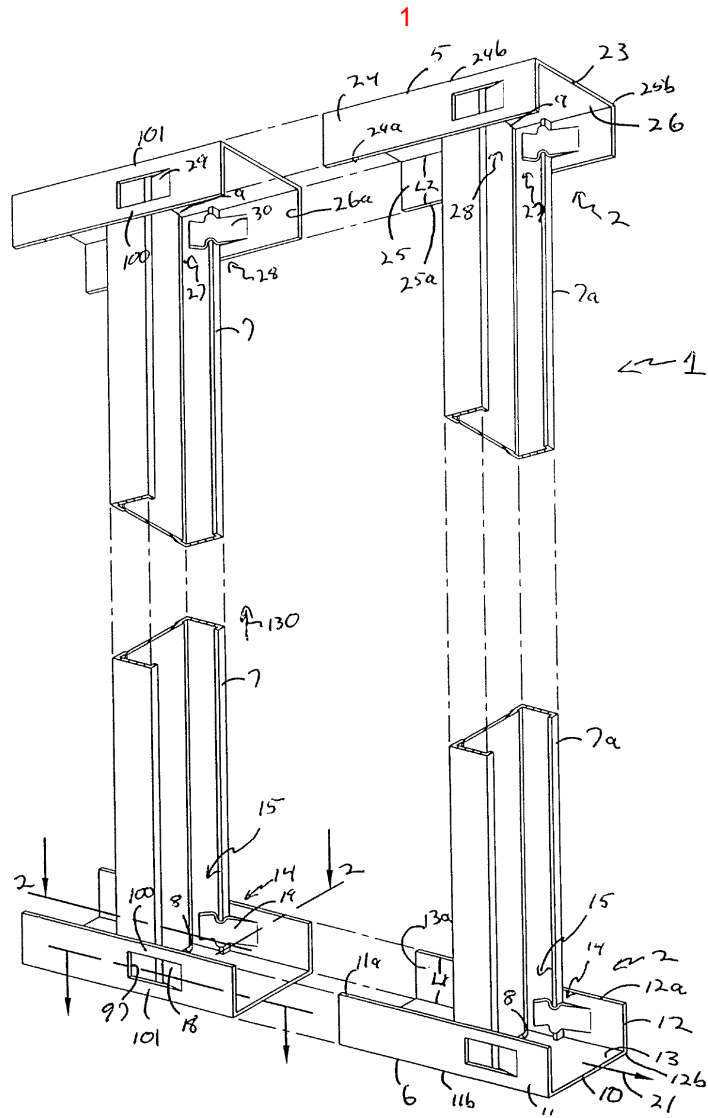
() 2 (51)가 2 (27) 2 (30)
2 (28) ,

(e)() 2 (25) 1 (29) ,

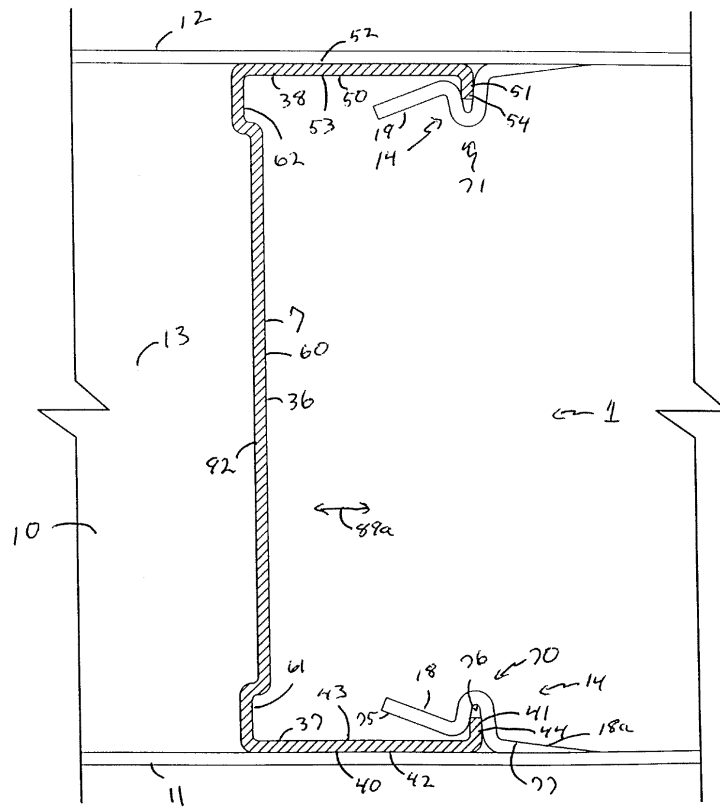
() 1 (24) 2 (30) 2 (28) ,

(f)() 1 (41)가 1 (24) 1
(29) ,

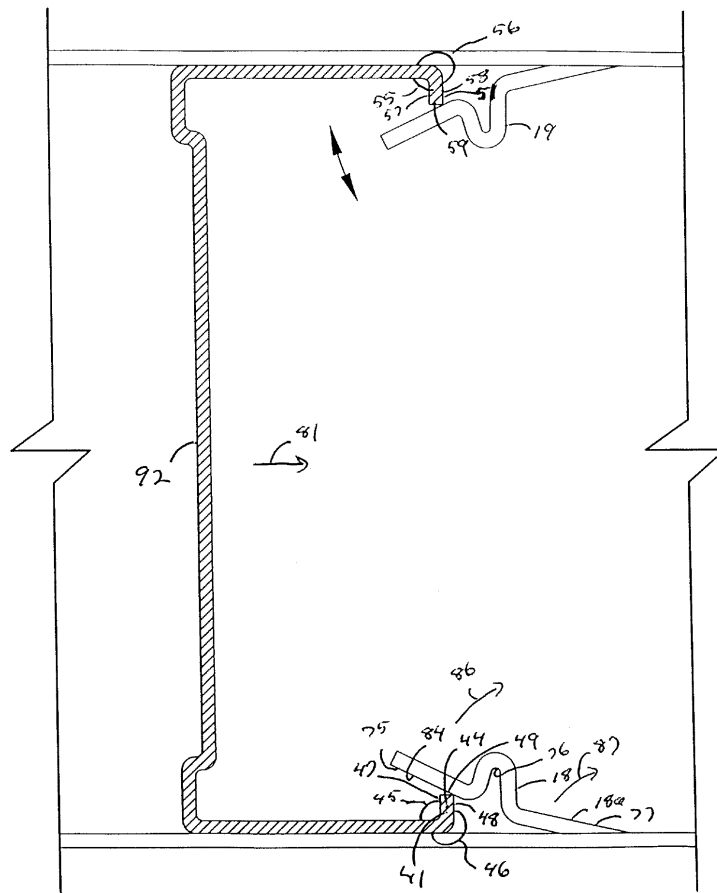
() 2 (51)가 2 (25) 2
2 (30) ,



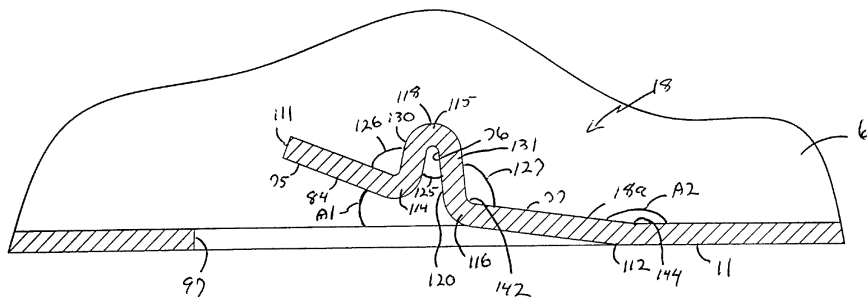
2



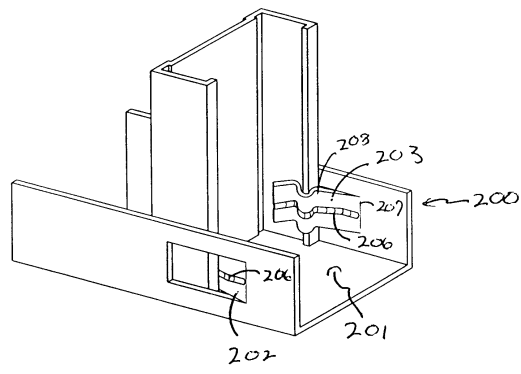
3



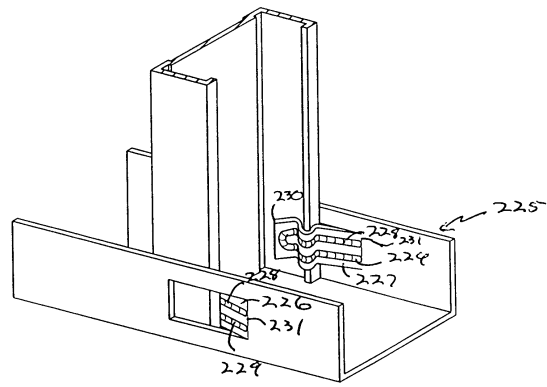
4



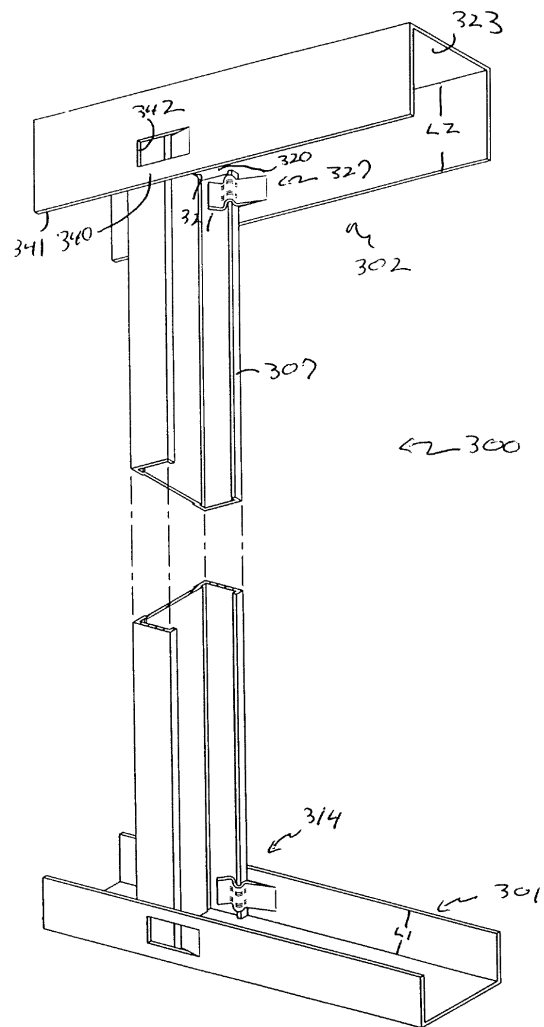
5



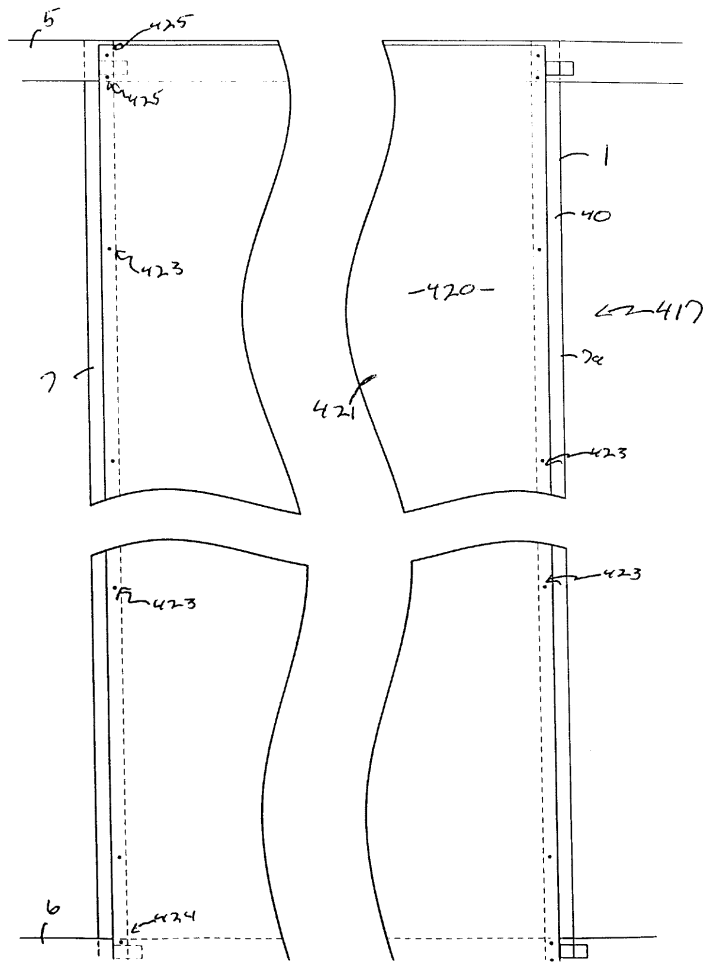
6



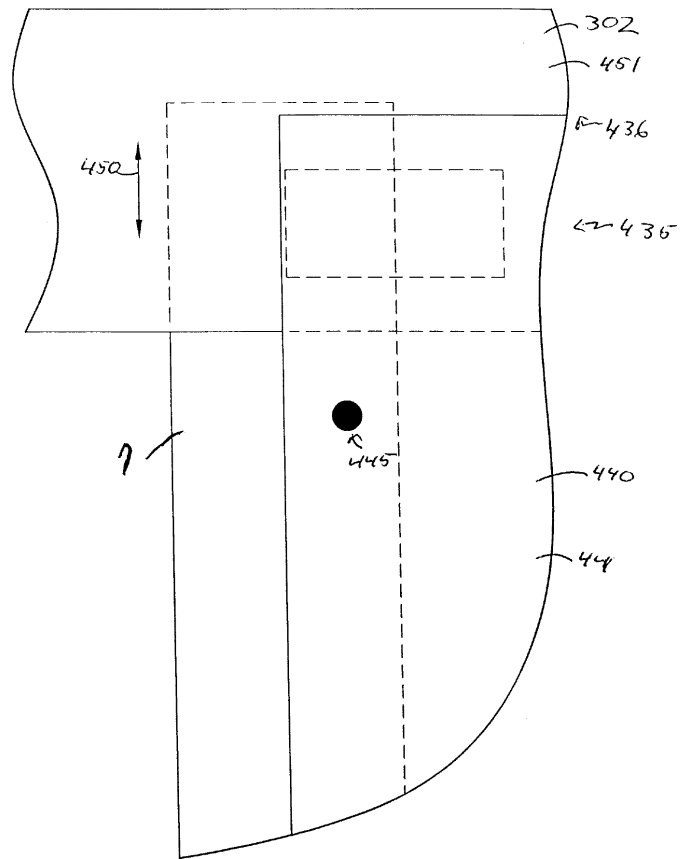
7



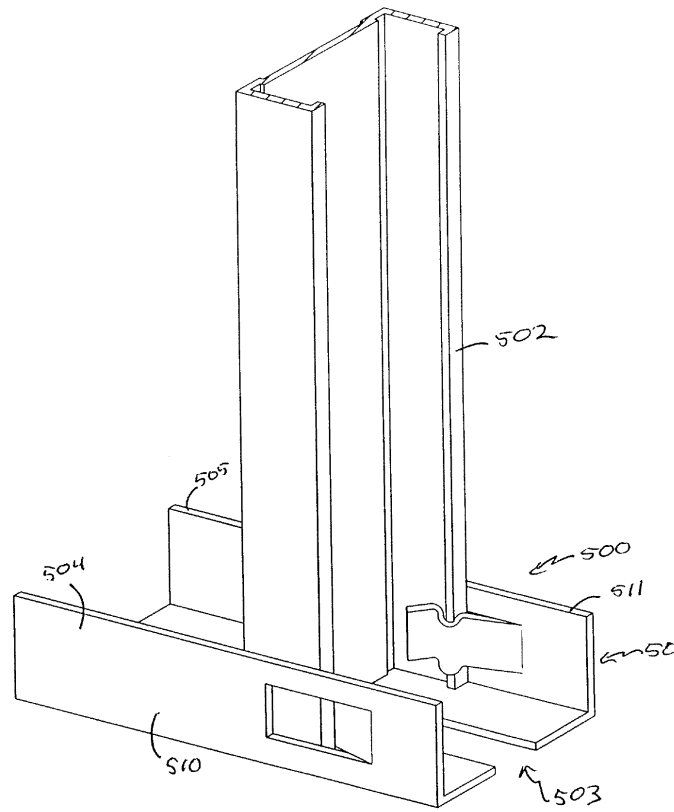
8



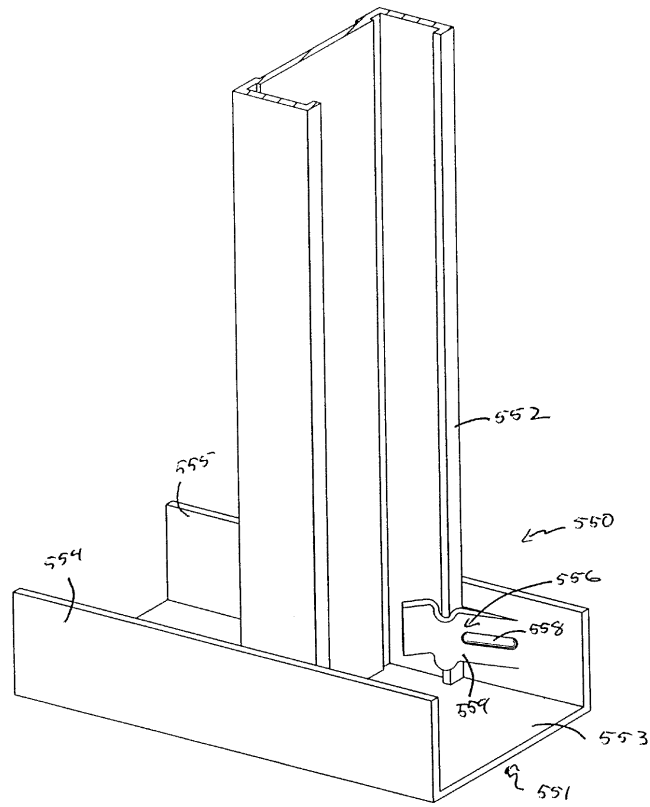
9



10



11



12

