

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

(51) . Int. Cl.7 (11) 10-2004-0007450  
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(22) 2003 08 19  
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(86) PCT/US2002/004523 (87) WO 2002/66242  
(86) 2002 02 15 (87) 2002 08 29

(30) 09/788,776 2001 02 20 (US)

(71) 60045 1900

(72) II, , .  
30076 8895

(74)

1

(54)

1 (12) 2 (14) (10) . 1 (12) (12a),  
 (12b) - , 1 가 . (12b) , 2 , 가 1 ,  
 , 2 , 2 (14) , , , (12b)  
 2 . 1 (12) 2 (14) , , , (12b)

1

(moisture build-up)

) ( 2 ( , , , , . ) . (stucco) ( , , EIFS) , , ) .

, (stud),

, 가 , , ( , )

1 2 . 1 -  
, , ,  
, 2 , 1 2 . 2  
, 1 2 .  
  
1 2 . 1 -  
, , ,  
, 2 , 1 2 , 2  
,

2 1 2-2

3

4 3 4-4

5 1

6

7 6 7-7

8 6

9

10 9 10-10

, 가 ,

1 2 (10)

, , , ( , )

(10) 1 (12) 1 1 2 2 (10) 1 (12) 2 (14) 1

(20) 3 4

1

1 / / , 가

1 (12b) , 1 (12) (MD) (12a) (TD)

1 1 (12) (scrim)

1 (12) 10 x 4 ( 7 x 4 MD 10 x 5 x 16 x 5 ) 1  
 MD TD 3 6 MD TD 6 24  
 가(12a)  
 (12a) 1- , 1- , 3- - 1- , 4- - 1- , 4- - 1- , 5- - 1- ,  
 가 , , , , 50 % , , 50 %

(HDPE), (VLDPE), (LDPE), (LLDPE), (MDPE),  
 (mLLDPE), (-CONH) 가 가

, , , (green lumber)  
( ),  
  
(12b) , (12b) , ( , (12b)  
) (12b) (12b) (12a)  
(12a) 2 (12b) (12a) (12a)  
3 4 2 (12b) 6 8

$$, \text{MD} \quad (12a) \quad \text{TD} \quad (12b) \quad - \quad (3 \quad 4 \quad ), \quad (12a,12b)$$

1

$$(10) \quad 2 \qquad (14) \quad 1 \quad (12) \qquad . \qquad (14) \quad 1 \quad (12)$$

(14)

2 , (14) 1 (12) . (14) (12b)가  
1 (12)(

1 (12) . . . . . 1 (12)  
 (14) , , ,  
 가

$$\begin{array}{ccccccccc} & & (60) & 6 & 7 & . & & (10) \\ , & (60) & , & & & & . & (60) \\ (62), & (64) & (66) & . & 6 & 7 & (62) \\ , & (64) & & & & & . & \end{array}$$

$$(64) \quad . \quad , \quad (64) \quad (64) \\ . \quad , \quad (64) \quad (channeling\ effect)$$

(spun yarn), (bcp) ( , )

2

70

,

■

80

(64) , , (64)  
BP (Amoco Fabrics) (62) (64)

$$(62) \quad , \quad , \quad 1 \quad (12) \quad . \quad (62)$$

$$(64) \quad (62) \quad (62) \quad (64) \quad 6 \quad . \quad , \quad (64)$$

가

가 . . . . .  
가 . . . . .  
가 . . . . .

150, 9 x 195, 3, 10 x 150, 4.5 x 100, 4.5 x 150, 4.5 x 195, 9 x 100, 9 x 100, 9 x 150, 9 x 195, 3, 10 x 150, 4.5 x 100, 4.5 x 150, 4.5 x 195, 9 x 100, 9 x 100, 9 x 150, 9 x 195, 3

, ASTM D 751  
9 11 . 8 가

EIFS)  
가

, (XPS), , (EPS) 가  
OSB가

)) (30) . . . . . (30) . . . . . (35) . . . . . (10)( 1 (12) 2 (14)  
 (southern yellow pine, SYP) . . . . . (spruce pine fur, SPF) . . . . ,  
 . . . . . 5 (10) 1 (12) (14) . . . . , 5  
 (10) . . . . . (40) . . . . . 1 (12)

$$\begin{array}{ccccccccc}
& 8 & , & (60)( & (62) & (64)) & (70) & & \\
& (75) & . & . & 8 & (60) & (60) & (62), & (64) \\
& . & , & 8 & (60) & (60) & (80) & (80) & (66) \\
(64) & & & & & & (10,60) & & \\
(20)( & 3 & 4) & (90)( & 9 & 10) & & & 
\end{array}$$

( ),

(WVTR) . . . . . ( 1 6) ASTM E 96  
perm[(grains/ft<sup>2</sup>)(h)(Hg)]

1 6

1 6  
1 6

1  
 (20 ) , - . 1.9 , . 18 . 0.020

$$1 - \text{가 } 10 \times 4( \quad \times \quad ) \quad . \quad 1 \quad /$$

1

2 3 . . . 2 3  
1 . . . BP . . 2 3  
22 , 1.9 . . 2 3  
가 10 x 5 . .  
2 3 / ,  
3 , 2 3 , WVTR , 2  
8 , 3 , 가 10 3

4 ((Owens Corning) PINKWRAP( ) 10 x 5  
 가 . 4 가 /  
 . . . .  
 , 4  
 . . . .

5 JUMBO TEX( ) FORTIFIBER( ) 2 (building  
 g paper) 5 2 . . 5

6 TYVEK( ) HOMEWRAP( )  
6  
6 가

(National Research Council of Canada)  
(a)

( ) , (b)

1

1

가

[ 1 ]

	WVTR(perm)	(ml)	( / )
1	2.18	1000	6:00
2	6.9	1000	3:20
3	15.2	1000	4:00
4 1	15	1000	2+
5	5	1000	2+
6	58 <sup>2</sup>	1000	2+
1 2 perm	4 6 perm B	.	A
	,	perm	.

1                          ,                          1 3                          4 6                          ( 3 6  
 2                          ).

                                .                          .                          .                          .  
 1 3                          4  
 5 6                          1                          4  
 가                          ,                          ,                          ,                          .  
 3                          2                          가                          .  
 /                          ,                          ,                          .

(57)

1.

-                          -                          1                          ,  
 ,                          ,                          2  
 ,                          ,                          ,                          ,  
 2                          1                          가                          ,                          ,  
 1                          2                          ,                          2                          ,  
 ,                          ,                          ,                          ,

2.

1                          ,                          가

3.

1                          ,                          1                          가                          -

4.

1                          ,                          1                          가                          -

5.

1                          ,

6.

1                          ,                          가                          6 24/                          ,                          가                          3 6/



22.

21 , , , ,

23.

21 , 가

24.

21 ,

25.

21 , 가

26.

21 , 1 가

27.

21 , 1 가 -

28.

21 ,

29.

21 ,

30.

21 , , ,

31.

21 ,

32.

31 , , 가

33.

31 , 1 가 -

34.

31 , 1 가 -

35.

21 , 2 4 1 4

36.

1 2 , , 1 -  
- 1 가 , , , ,  
2 가 , 2 , 2 , 1 2 , , ,

37.

36 , , , , ,

38.

36

39.

36 가

40.

36 1 가

41.

36 , 1 가 -

42.

36 ,

43.

36 ,

44.

36 , ,

가 3 6

45.

36 , .

46.

45 , , 가

47.

45 , 1 가 -

48.

45 , 1 가 -

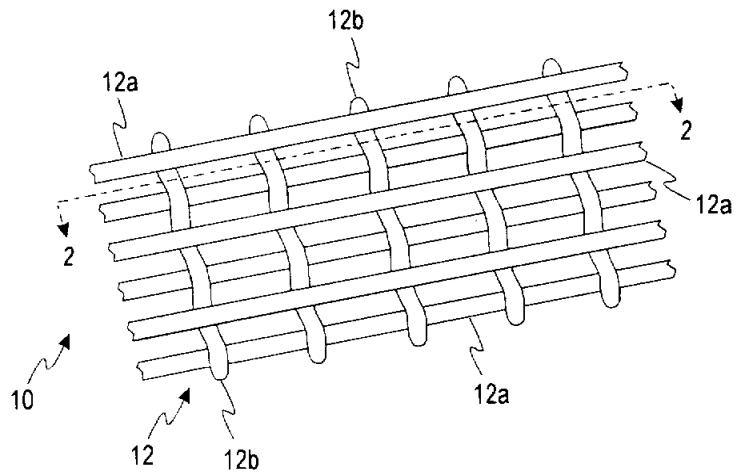
49.

36 , 2 가 1 4

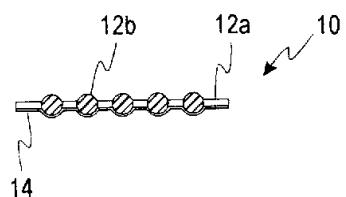
50.



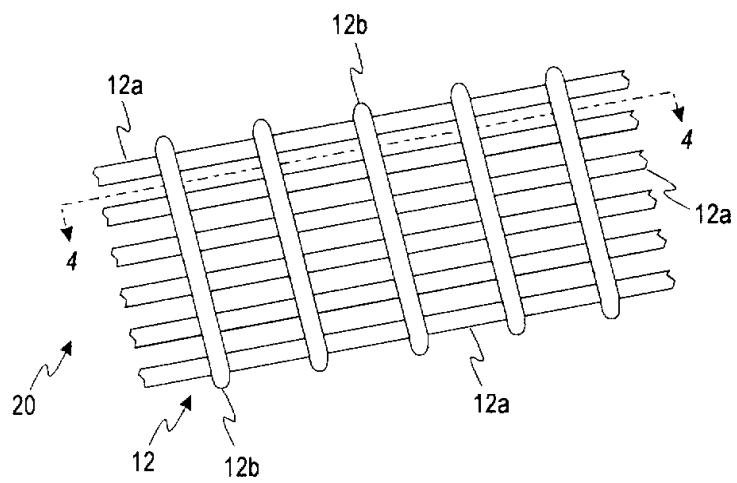
1



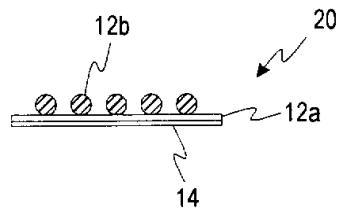
2



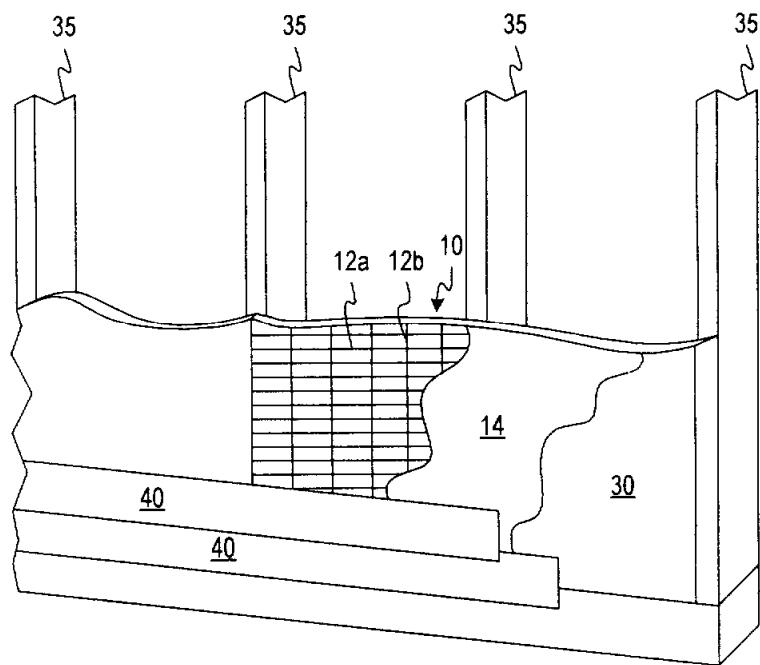
3



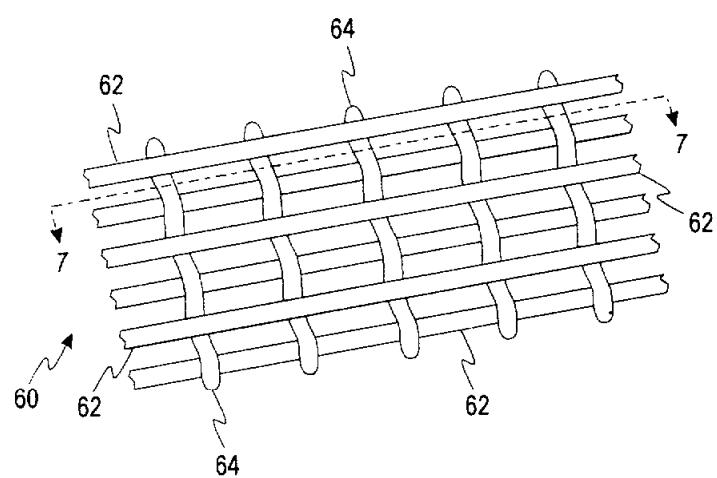
4



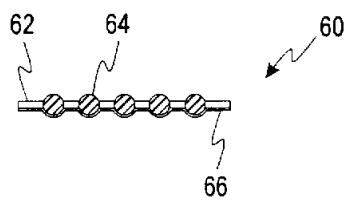
5



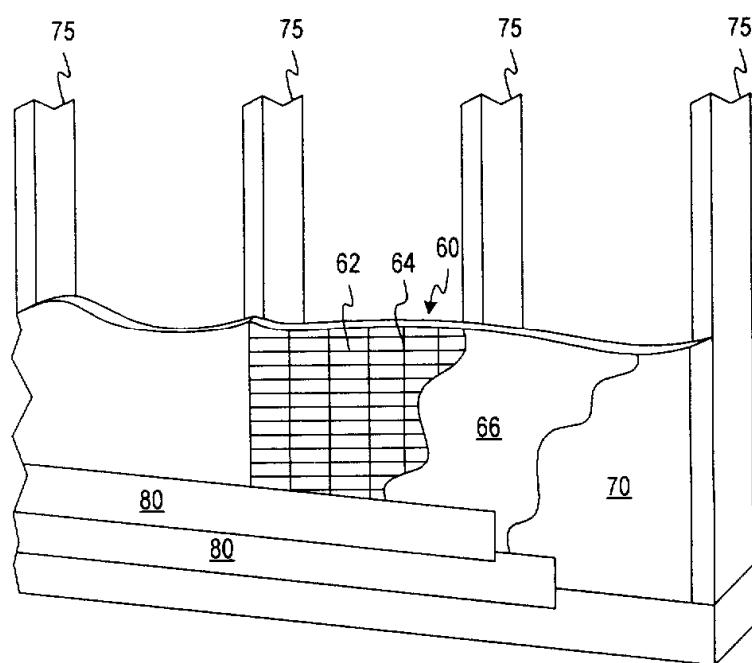
6



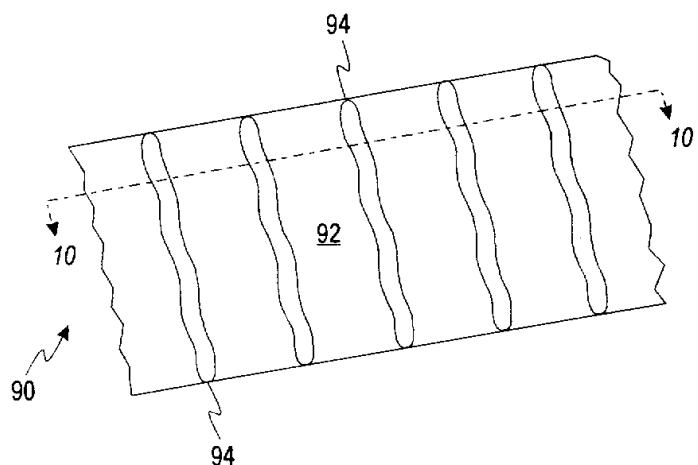
7



8



9



10

