

(19)  
(12)(KR)  
(A)(51) 。 Int. Cl. <sup>7</sup>  
G02B 5/124(11)  
(43)2002 - 0053873  
2002 07 05

(21) 10 - 2002 - 7006471  
 (22) 2002 05 21  
 2002 05 21  
 (86) PCT/US2000/08165  
 (86) 2000 03 28

(87) WO 2001/38908  
 (87) 2001 05 31

(81) : , , ( ), , ,  
 , - , , 가 , , , , ,  
 , , ( ), ( ), ( ),  
 ( ), , ( ), , 가 , ,  
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 AP ARIPO : , , , , , , , 가 ,  
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 EA : , , , , , , ,  
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 EP : , , , , , , , , ,  
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 OA OAPI : , , , , , , , , 가 ,  
 , , , , , , , , ,

(30) 09/448,637 1999 11 24 (US)

(71) .  
55144 - 1000

(72) 55144 - 3427 . . 33427

(74)

:

가 , 가 ,

가 ,

1

, .

" (sign)" , ,  
 , ( , , ) ,  
 " (retroreflective)" ,  
 .

가 " (beaded)" ,  
 [ , (vapor  
coat) ] 가 3,190,178 (McKenzie), 4,025,159 (McGrath), 5,066,09  
8 (Kult) ,  
(structured surface) 3  
 ,  
 , 1,591,572 (Stimson), 4,588,258  
(Hoopman), 4,775,219 (Appledorn ), 5,138,488 (Szczech), 5,213,872 (Pricone ), 5,691,  
846 (Benson Jr ), 5,696,627 (Benson )가 .

(TIR) ( )  
09/087,683

가

" (Sign board)"  
가  
1  
(PSA) , PSA  
PSA  
가 1

가

가

(前面)

1

2 1

3 가

4 5 ,

6 ,

7 ,

, ,

8 .

,

.

1 , (10) . (14) (14) (16)  
 (12) (14) (18)  
 (20) (22a, 22b) ,  
 (24a) (24) (22a, 22b) , (24)  
 (20) (18) (24)  
 가 (26) ,  
 (26) , (28) ,  
 (24) (18)/ (20)  
 (20) (24) 가  
 (24)가 , 가 ( )  
 (24) ,

가 , 가 .

(18) , (18) (20) .  
 (12)

(20) , (24a)

Bynel™ (EAA) / (EVA) 가  
 E.I. du Pont de Nemours and Company(Dupont)

Bynel™

(IOA)  
 24,906 (Ulrich) 5,660,922 (Herridge )  
 5,637,646 (Ellis) , 4,181,752 (Mart

ens ) " 0  
 9/393,369 (Lasch ) 3 , 2 , 가 (20)  
 ( )

2 1 (30) (32) (34) (36)  
 , (34) 2  
 , (32) (32) (30) (38) (38)  
 UV , (38)  
 Electrocute™ (38) (30) (3M) 가 3  
 , (37) (36)  
 2 , (18) (20) (24)  
 , (20) (18)  
 (37)

4 5  
 1 A - A , 4 5  
 (18) (40) (18) (40)  
 (20) , 가 (18) (40)  
 (42)  
 (42)  
 2 (42) 4 5 가  
 (42)  
 U

5 (30)가 (44) 4  
 (44) (46) (48) , 가  
 (52) (48) (50) (52)  
 (30) 3 (30) 가  
 (44) (cavity - based)  
 4,127,693 (Lemelson), "  
 09/227,963 (Smith ), "  
 " 09/228,367 (Smith ) (52)  
 가 , (54) (38)  
 (54)

6 1 (60) 6  
 5 1 (12, 16)가 (14)  
 (62) (62) (40) (42)  
 (20, 40) , (42) 가 , (22a, 22b) (  
 64) (64) (64a, 64b)  
 , (66) (66)  
 (64a, 64b) (68)

가 , (70) . (64) , (26)

7 8 (40 18) (74) , (44, 30 24) 7 , (72)  
 (76) , (76) 가 (74)  
 . (72) (78)  
 , , , , 가 (82)  
 . " STOP" 가 (76) .

8 (72) (84) . (84) (7  
 6) (86) (88) (88a) ( 8 )  
 . (88a) (86) (indicia)가  
 . (88) (88b) , (86)

, (master mold)가 ,  
 . " (stam  
 per)" (replica) 가  
 , , ,

3,684,348 (Rowland) , PCT WO 95/11464(Benson Jr ) ,

, 1.59 가 500  $\mu\text{m}$   
 . 175 200 .

, , 가  
 , Rohm and Haas Plexiglas  
 1.59 ; 1.6 ,  
 ; (SURLYN ) ;  
 가 가 가  
 , , UV 가 5,450,235(Smith ) .

가 ,  
 , 0 (projectiles) , ,

(PET - G)

가

가 50 (1.3mm)

75 (1.9mm)

가 2 (0.05mm)

3 (0.08mm)

12 (300mm) 2

Chevron Chemical Co

HiD 95

12  
cal Company

Primacor

EAA,  
3440(9% )

Dow Chemi

) 50 lbs/hr(23kg/hour)

10

250 (120 )

(vapor coat)

. 가

Scotch™ Magic™

가

가

가

ASTM D903

180 °

, 4.4lbs

4.4 lbs/inch(7.7 N/cm)

(57)

1.

(74, 88)

(18, 40, 74, 88)

(20)

(24, 30, 44, 76, 86)

(37)가

2.

1

3.

1 , , , .

4.

1 , .

5.

1 , (EAA) (EVA)

6.

1 , .

7.

1 , .

8.

1 , .

9.

8 , .

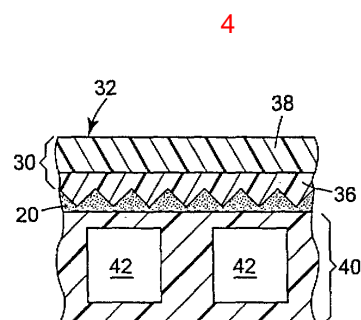
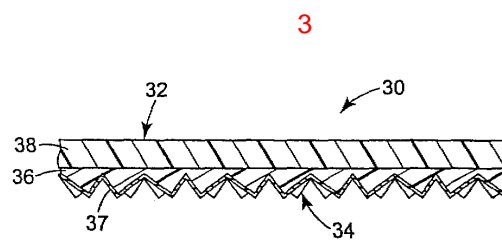
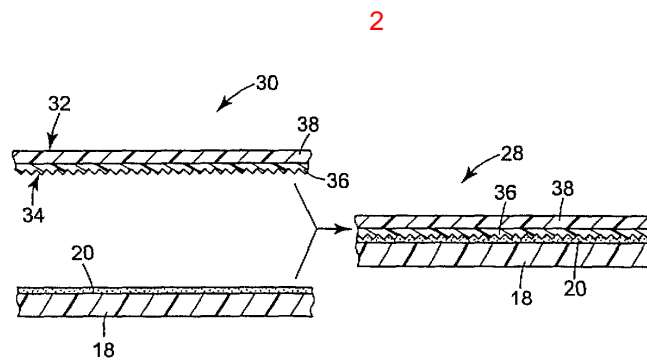
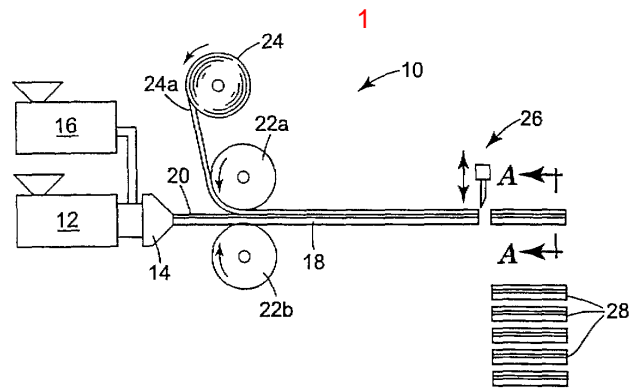
10.

1 , .

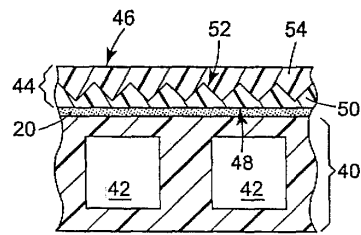
11.

1 , .

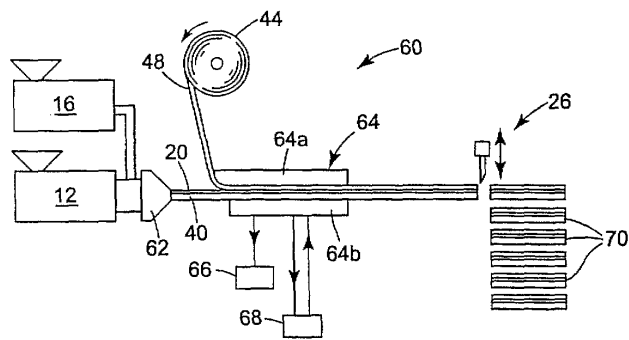




5



6



7

