

**(19)**  
**(12)**

**(KR)**  
**(B1)**

(51) . Int. Cl. <sup>7</sup> B65D 33/00	(45) (11) (24)	2003 09 02 10-0396419 2003 08 20
(21) 10-2001-7015515 (22) 2001 12 01 2001 12 01	(65) (43)	2002-0035000 2002 05 09
(86) PCT/US2000/15244 (86) 2000 06 02	(87) (87)	WO 2000/72651 2000 12 07
(81) :	,	,
EP :	,	,
,	,	,
,	,	,
,	,	,
,	,	,
(30) 09/324,474	1999 06 02	(US)
(73) 1525		
(72) , , . 53405, , 4233		
, , . 53045, , 765		
, , . 48640, , 5200		
, , . 48604, , 1383		
, , . 48640, , 5119		
(74) :		
(54)		

	(14) (18, 18')	(12)	(10)	1	(32)	2	(3
2')		,					
,	2	(32, 32')	,				

5b

가 , . , " (freezer burn)"

가 (lipids) , (reversible process) 가 .

"Packaging Foods With Plastics" , "packaging fresh r  
ed meat collected in Chapter Seven"

가 1994 3 "Consumer Reports" 143-147 "Keeping Food  
Fresh"  
( , , 가 , , ) 가 (1) 가 가  
가 가 . 가 . 145 ZIPLOC 가 가  
가 . . " "( ) , ,  
(double wrapping)  
" .  
(liner) " .  
4,211,091(Campbell) " "  
4,211,267(Skovgaard) " "  
4,797,010(Nabisco Brands ) " 가  
" .  
4,358,466(Dow Chemical Company  
(upright spout) " 2  
) " .  
5,005,679(Hielle) " "

S.C. Johnson Home Storage, Inc. 5,804,265



2a	2	가			
2b			2a		
2c	2a				
2d			2a		
2e	2a				
3a	3	가			
3b	3a				
3c			2		3a
4a	4	가			
4b	4a				
4c	1		4a		
5a					
5b	5a	5b-5b			
5c					(blanket seal)
5d					

8			
8a	8		
9			1
10			
10a	10		
10b	10		1
11			
11a	2	2	
11b	11		
12			
12a	12		









1	2	MD 가	15%
2-15%	2		
8			
9	,	2 가	
1	(440)	0.05	1 (PLI)(0.6mil PE)
2	,	/	
8	,	가	
0.02	2.0 PLI(PE )	" (wave)" /	(472)
10	,		
1	2	1	2
2	가	,	, 1 가
,			(452)가 (436)
8	가	(454, 456)	5d (458)
(452)가		가	
가	가	,	가
2			LDPE 748
가			가
mil 10mil	1.5	2mil	0.5 3.0mil
mm	8a	3 76mm	1 6 19
12	2	2	
2	1	1	2
,			1 1
,		2	
(458)		(452)	
(452)		(452)	
(452)		(452)	3
(454, 456)		(458) 1 가	
가	가		가
가	,		,
5c			가
,	3 76mm	3mm 6 19mm 13 254 25.5 (0.5 10mils)	
가	가		
(1.0 1.5mils)	25 51 (1 2mils),		
10, 10a, 10b	,		
8			(472)

11, 11a, 11b , . 2 가 (472)  
 가 2 11b 가  
 12 12a ,  
 (480) (459) (4  
 82)

, 가

(57)  
 1.  
 (10) , (14) , (12) (36, 36') (36, 36') (10) (12) (34, 34') 2  
 (18') , (10) (20) (30, 30') (32, 32') (14)  
 (12) (34, 34') ,  
 (14) ,  
 2.

1 , (14) (30, 30') (12) (34, 34') ,

3.  
 1 , (32, 32') 0.3 1.0mil

4.  
 3 , (14) ASTM D832-83 A 40,000psi 2  
 (Transverse Direction 2 percent Secant Modulus ; TDSM) 가 , 1 2  
 0.25 1 (specimen) 1 4  
 (jaw gap) 가 1

5.  
 1 , (14) 60,000mil <sup>3</sup> psi 1 Z 가 , 4 가 1  
 0.25 Z (t <sup>3</sup>) × (TDSM) , t 가 mil , TDSM ASTM D 83283, A

6.  
 4 , Z 20,000mil <sup>3</sup> psi

7.  
 3 , (12) 50,000 150,000mil <sup>3</sup> psi Z

8.  
 7 , (14) , 가

9.  
 1 , (14) (12) (36,  
 36')

10.  
 1 , (14)

11.  
 1 , (129) (16)

**12.**

11

(14)

(12) 가

**13.**

12

(14)

(30, 30')

**14.**

13

,

**15.**

1

,

**16.**

1

(14)  
(36, 36')

(30, 30')

(air hem seal)

**17.**

1

(14)

(12)

**18.**

1

(14)  
1  
1 2

1 , 2

2

**19.**

(12)

(14)

1 mil

가

1

1 가

(414)

2 mil

2 가  
1 가가  
(432)1 가  
1 가(414)  
(414)2 가  
(432)

(432)

(414)

2 가  
가; (432)  
(414, 432)

(414, 432)

2 가  
;

(432)

1 가

2 가

가

(432)  
2 가

(432)

가

1 2  
가**20.**

19

1 가

(414)

(460)

**21.**

19

가

(459, 97)

(459, 110)

**22.**

19

가

1 가

(432)

(414)

(460)

1 가

가

(414)

(460)

,

2

**23.**

19

2 가

(432)

**24.**

19

,

2 가 (432)

25.

19 ,  
(14) 1 (36)

1 , 2 (36')

2

26.

27.

28.

29.

30.

31.

32.

33.

34.

35.

36.

37.

1 mil (410) ;	가	1	1 , 가	(414)
2 mil	2 가	1 가 (430) ;	2	
1 가 (434) ;		1 가 (414)	2 가	
가		;	,	
2	가	2 가	2	

38.

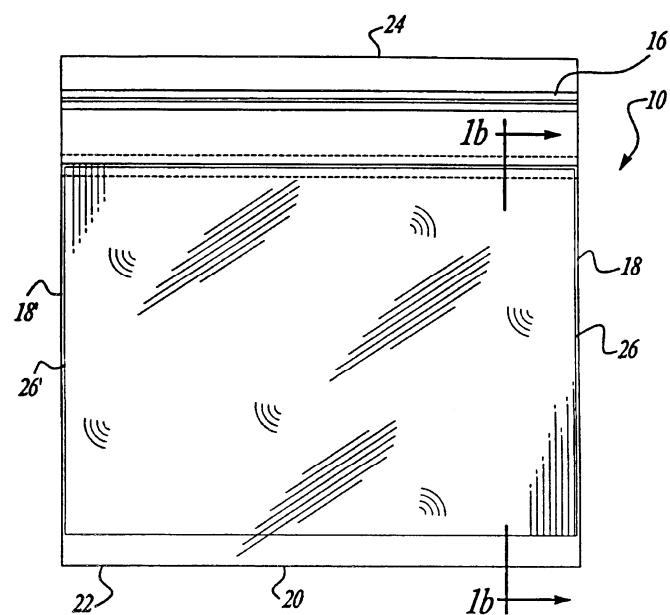
39.

40.

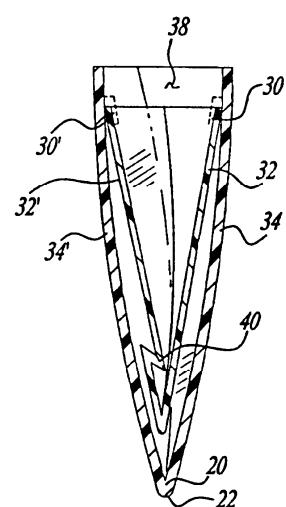
41.

42.

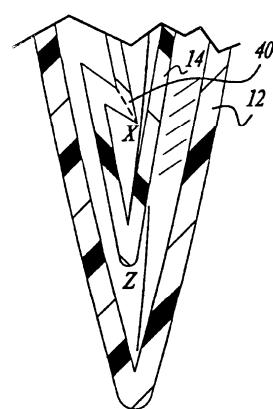
1a



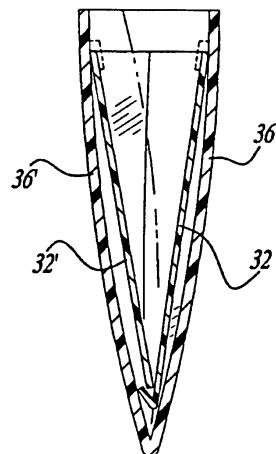
1b



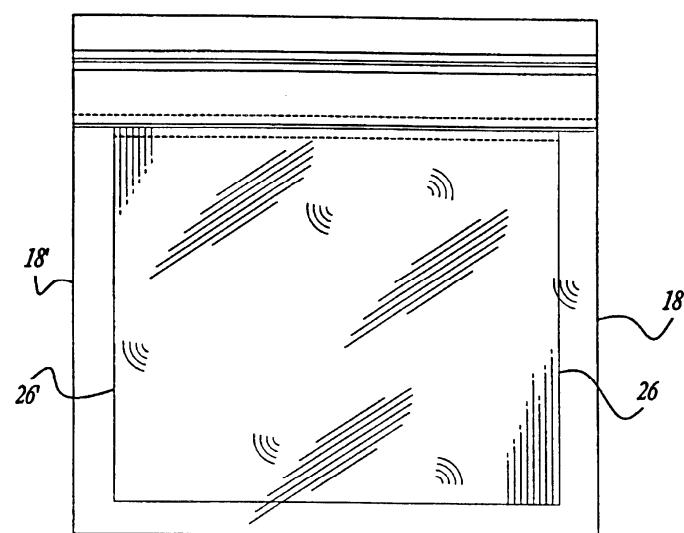
1c



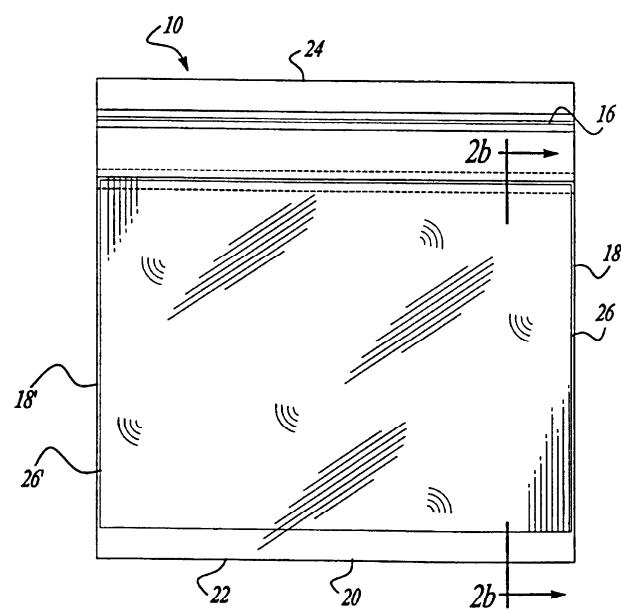
1d



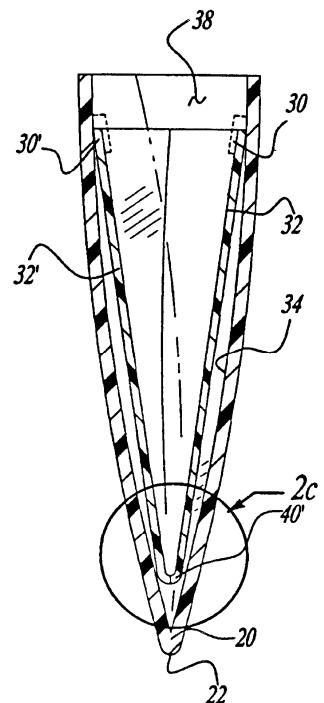
1e



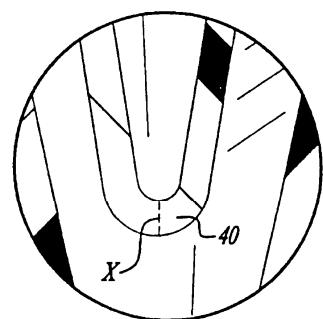
2a

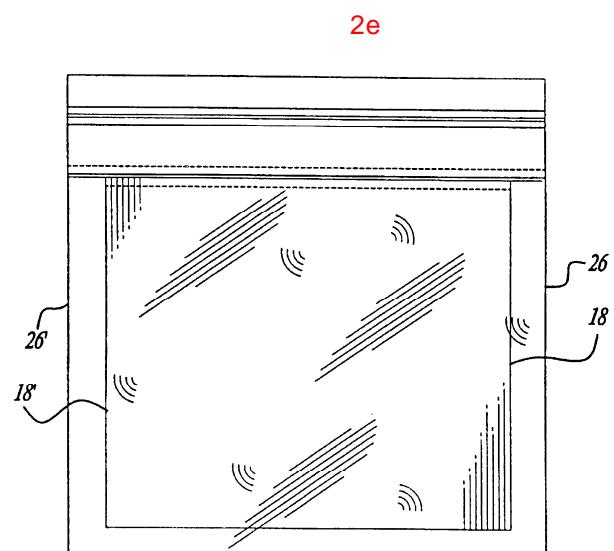
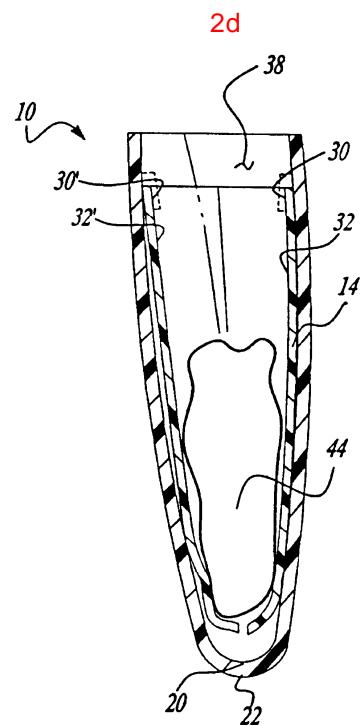


2b

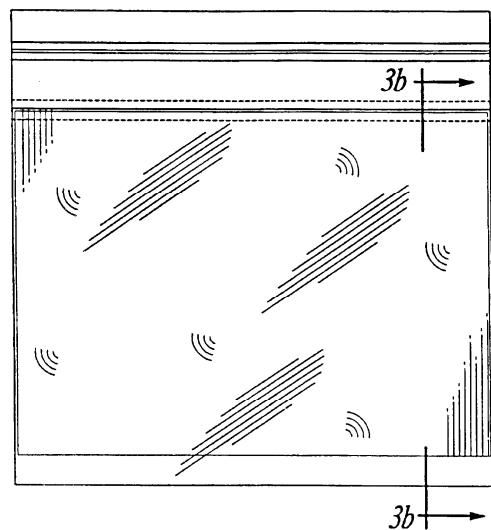


2c

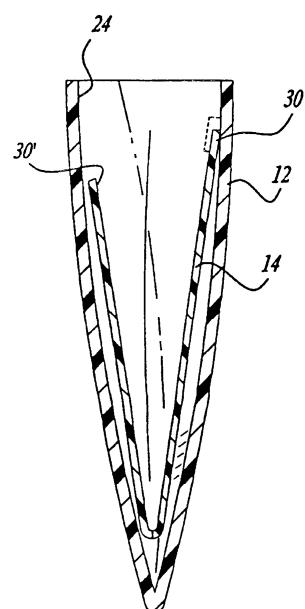




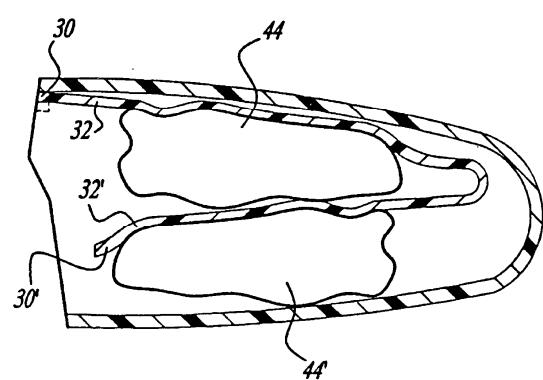
3a



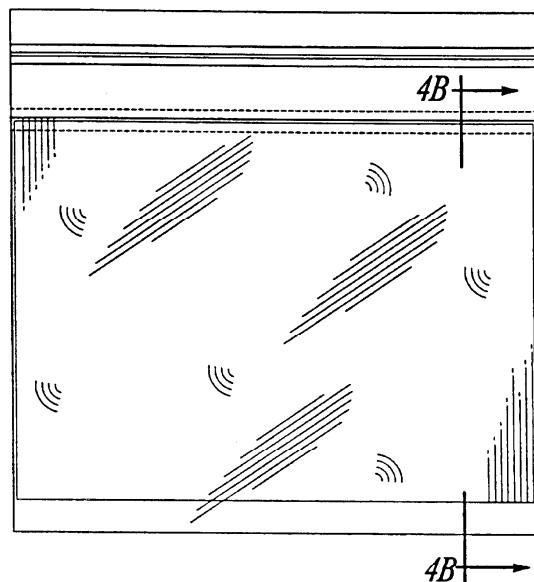
3b



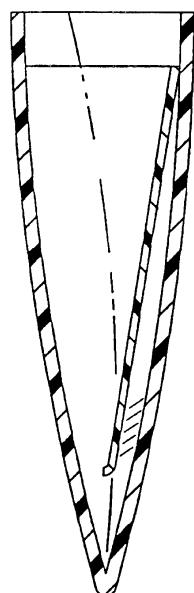
3c



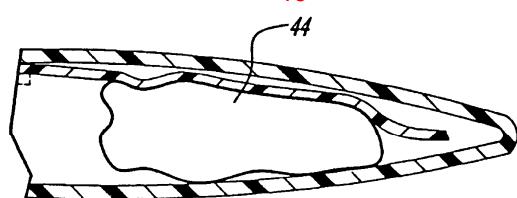
4a



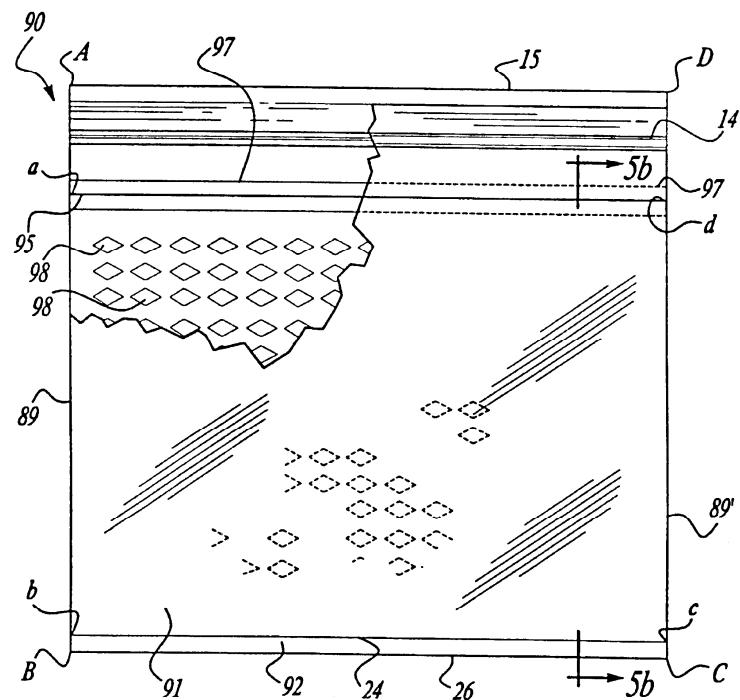
4b



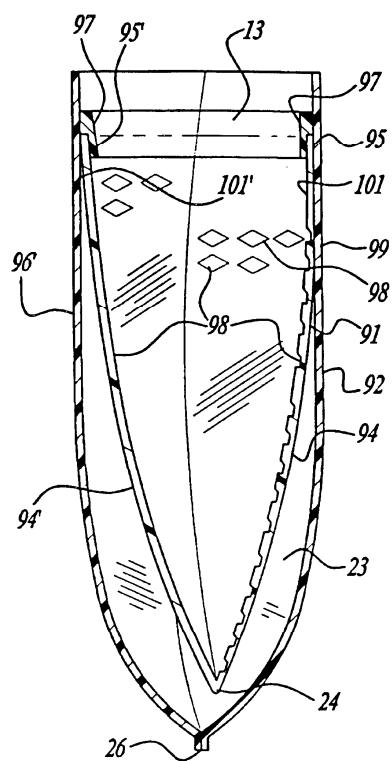
4c

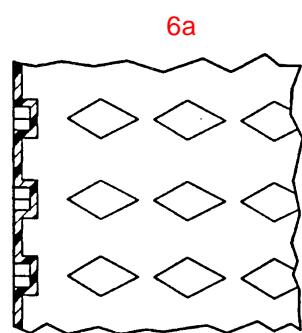
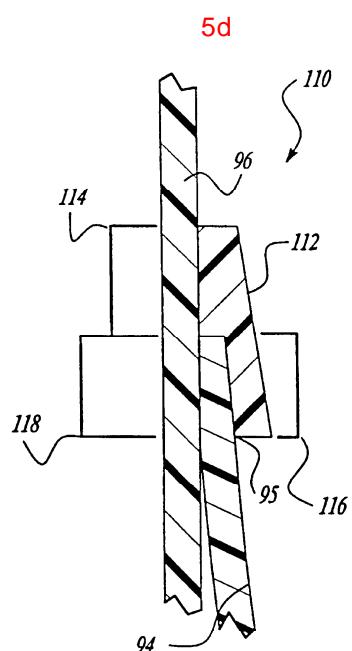
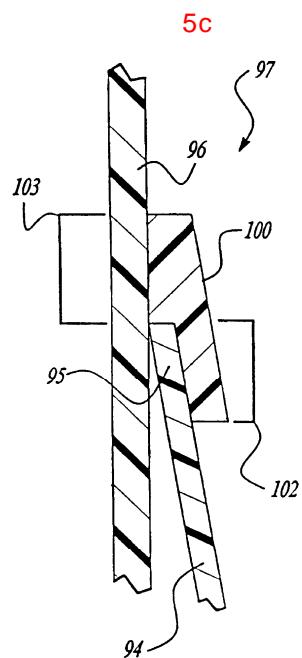


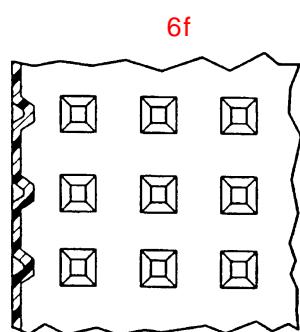
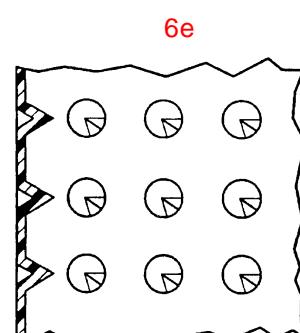
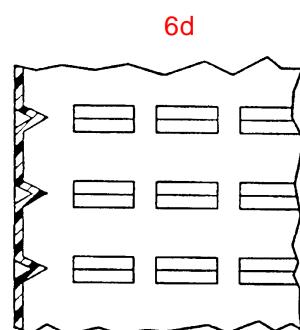
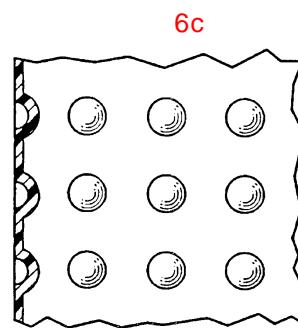
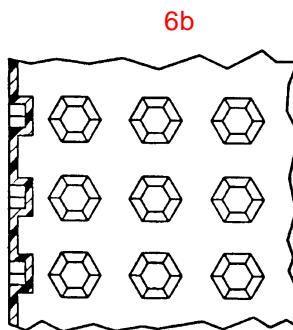
5a



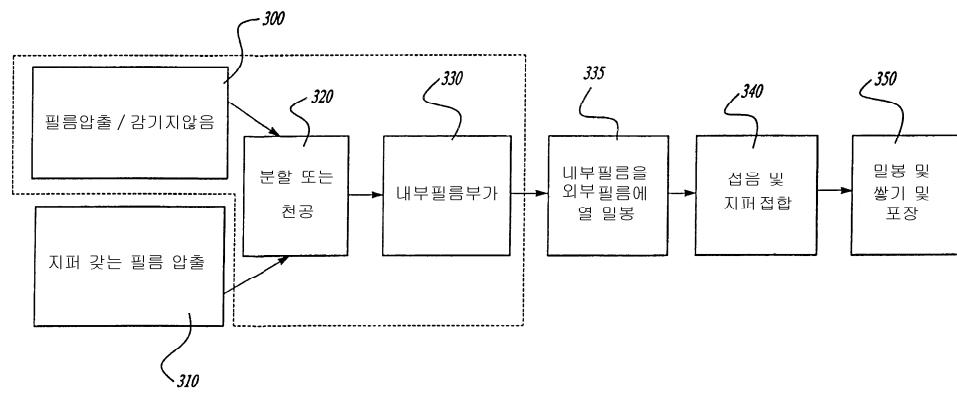
5b



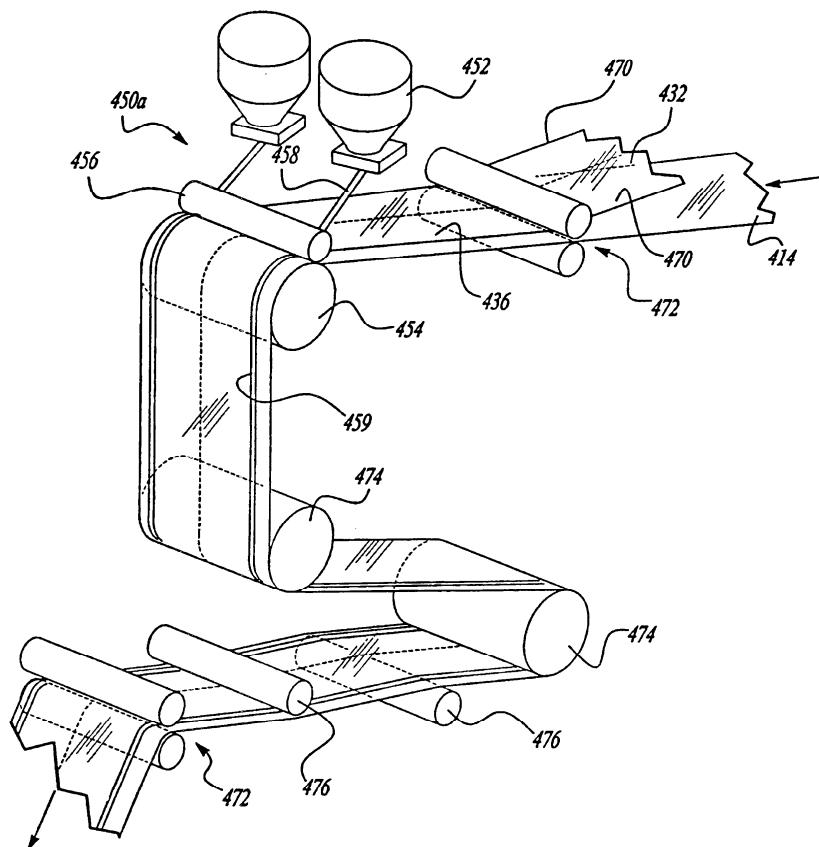




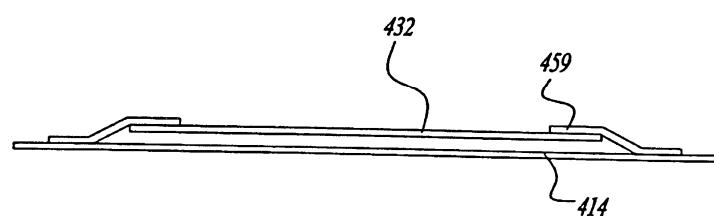
7



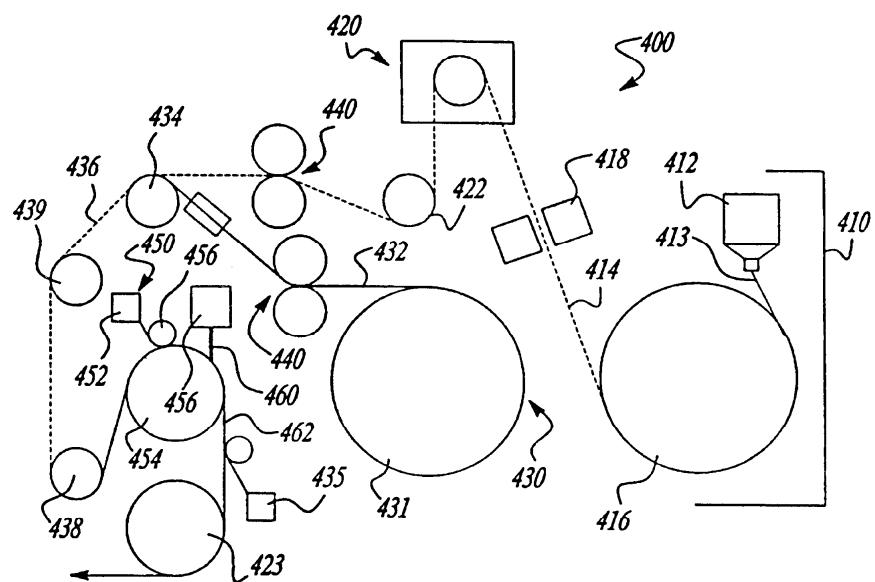
8



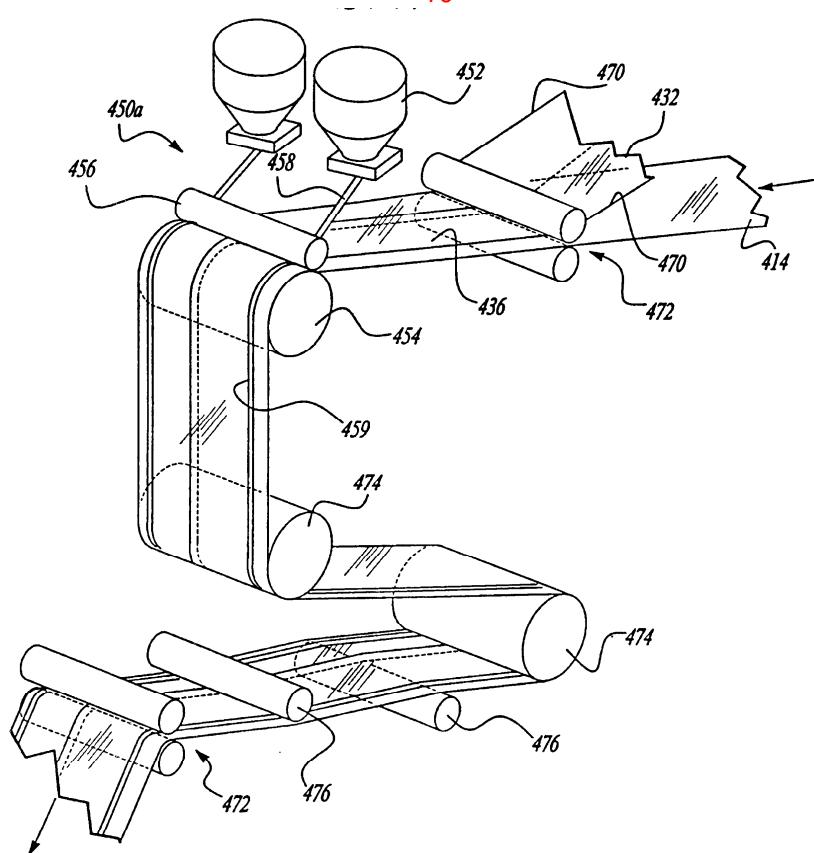
8a



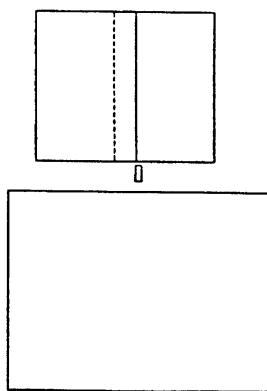
9



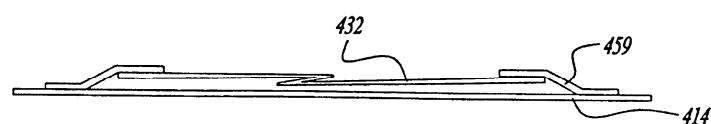
10



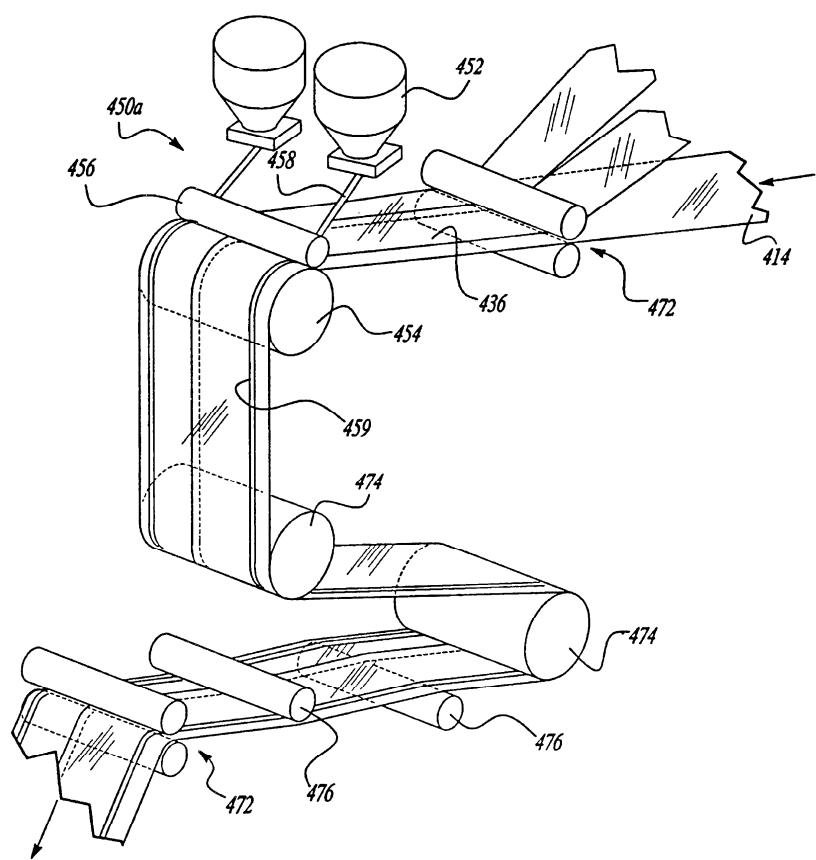
10a



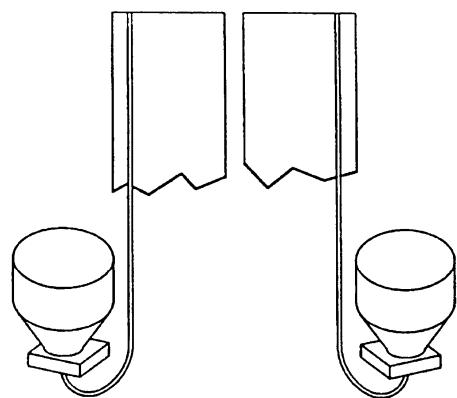
10b



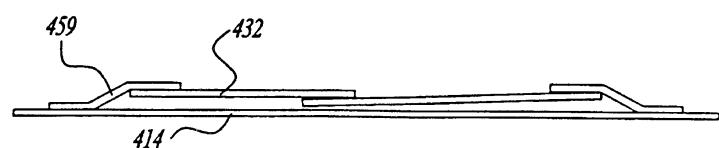
11



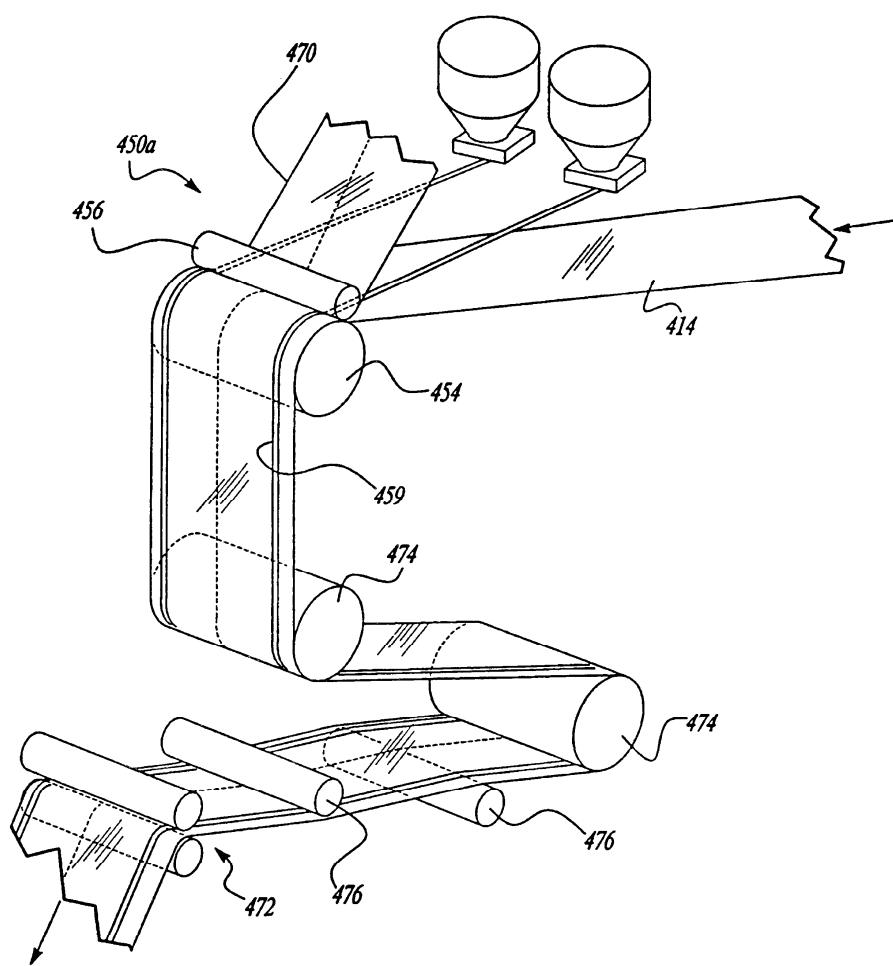
11a



11b



12



12a

