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(12)

(KR)
(A)

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(11)
(43)

2002 - 0086523
2002 11 18

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(22) 2002 08 12
 2002 08 12
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(86) 2001 12 14

(87) WO 2002/50487
(87) 2002 06 27

(30) 09/737,782 2000 12 18 (US)

(71) 43017. 555, 425

(72) 53214 1518 60

36093 141

(74)

(54)

1

4,276,927 , 4,473, 111 , 4,729,428

2

¹ 1 2

1 , , -
2 , , 가

가

US 4,473,111 6,019,169 (header:
) (bar) 가 . 가 US 4,729,428

US 6,019,169

가

가

가

가

(cladding) ().

가

가

가

(flux)

가

가

가

가

,
가

- 1 1 - ;
 2 1 - ;
 3 2 3 ;
 4 2 4 ;
 5 1 ;
 6 1 ;
 7 1 ;
 8 1 ;
 9 1 ;
 10 1 ;
 11 1 ;
 12 1 ;
 13 1 ;
 14

,
가

- 1 2 , - 1 (10) 1 가 . (10) (12)
 , (12) (12) (14a)(14b) . (14a)(14b)
 (12) 1 (18) (16) , (16) (16) (14a)(14b)
 (12) 1 (18) (16) , (16) (22) (20) , 1
 가 2

(16) ,
 (16b) , 1 (18) ,
 . (16) (16a) ,
 . 1 (18) (16c) ,
 (16a) (16b) ,
 (50)(16c) (16b) ,
 (54) .) (16) (12),
 (52) 가 .

13	3	.	.	,	(16c)	(16a)
	가	.	,		가	
(18)			가	,	,	가

$$(24) \quad (16) \quad , \quad (20) \\ (16) \quad (24) \quad (24a) \quad , \quad (24b), \quad (24c)(-5) \\ (16a) \quad (24) \quad (24a) \quad (20) \quad .$$

, 가 (26)

$$1 \quad 2 \quad , \quad (20) \quad , \quad (20) \quad (40) \quad , \\ (42) \quad . \quad 14 \quad 4 \quad , \quad 11 \quad \text{가}$$

(24)

가	.	(40)	(16)
(40b),	(40c),	(40d)	.
가			(40)
(40b)	.	(44)	가

(40) (40c) (16)
 , (16) (40b) (42)
 (40a) , ()
 (42) 0.005
 (40a) ,
 (40a) (filler wire) (42)
 , (40d) (20) (29)
 (40a) (40b)

$$\begin{array}{ccccccccc} & & (40) & & & (40a) & & \\ (46) & , & . & (42) & (10) & (40a) & (40b) & (46) \\ \text{가} & . & & (40) & (46) & (46) & & (24) \\ (24a) & . & & & & & & \end{array}$$

가

9	10	,	(16)		(424)	(524)	(424a)	(524a)
		가		가	9	2		(426)
(424a)		,	(424)		(424c)			(424a)
	(16)						(430)	(424a)
(16)				.	(428)	가		,
	(428)		가	,	(16)		(426)	(426)
	(460)			10		(524a)	가	(524)
10		,	(524a)		2	(526)		,
(16)				(526)				(526)
	가		,	(528)	가		(526)	(550)

6 10 , (124c),(224c),(324c),(424c) (524c) 가
 , 5 (24c) . 5 (24c) , (20) , (124c),
 (146),(246),(346),(446) (546) (224c),(324c),(424c) (524c) 가 ,

12 , (124) (140)
 , (140) (140b)
 , (128) (144) (140a)
 , (128) (144) (140a)
 , (124c) (26) (144) (140a)
 , (124) (142) (144) (140c)
 , (16) (140c) (140a),

13 , (324)
 (340) . (340) , 2 (344) (340)
 (340d) . 가
 (340b) 가 (324) , (344) (340)
 (16) (340b)
 . (340a) (340a)
 (340a) (340b) ; (340)
 b) 가 ; (344)
 , (12)

가 . , (24)

가

가

가 ,

가

2.

1

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3.

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1 2 ;

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13.

11 ,

2 가 , ;

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14.

13 ,

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15.

13 ,

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16.

11 ,

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17.

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18.

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22.

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가

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22

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가

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가

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26

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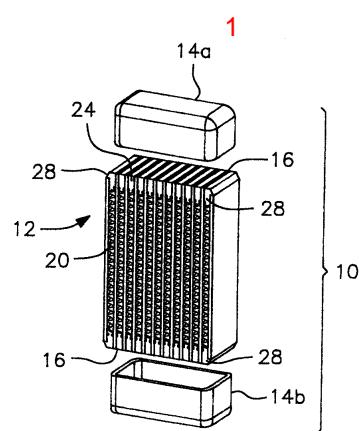
31.

22

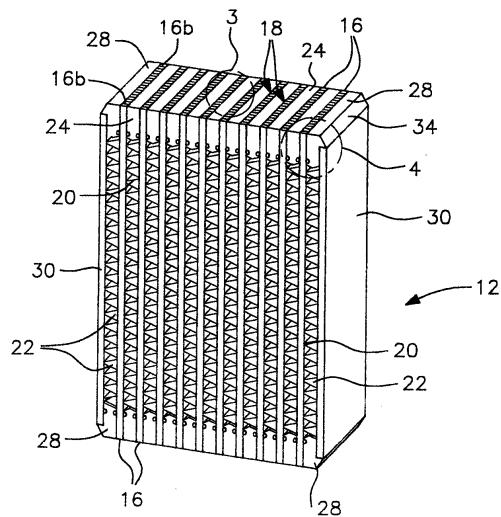
1
2

32.

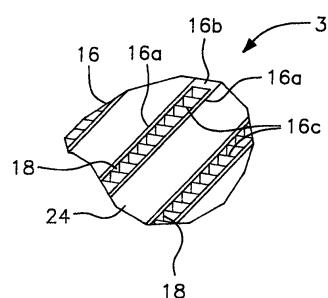
31

2
2

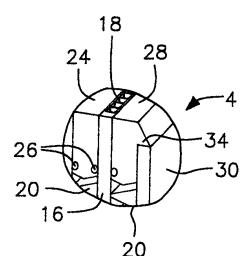
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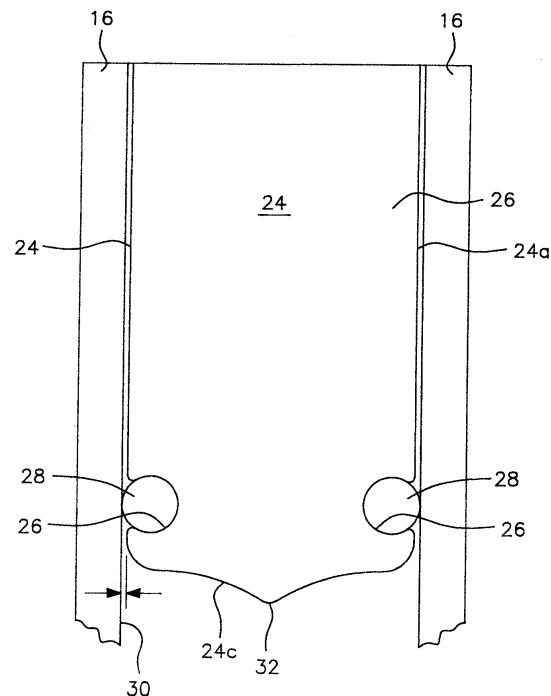
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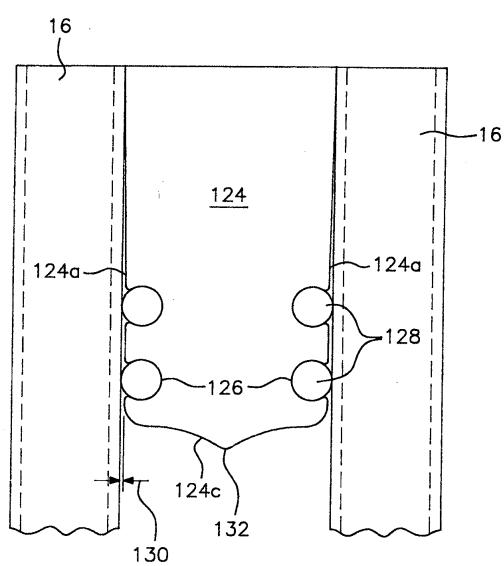
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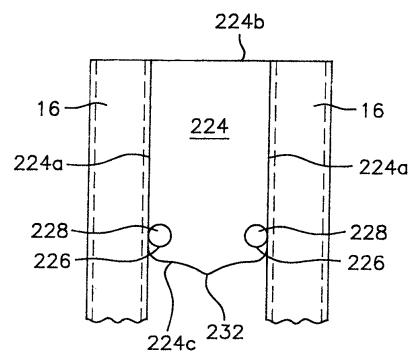
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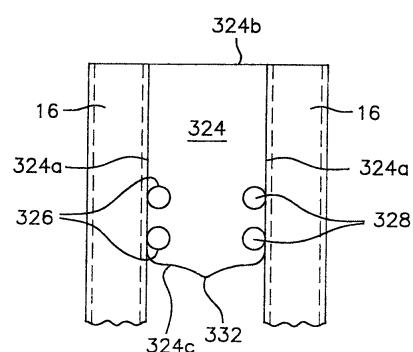
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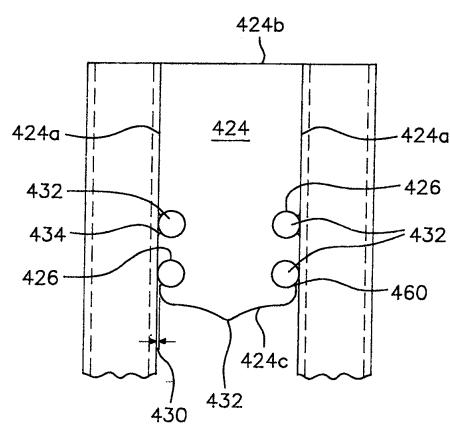
7



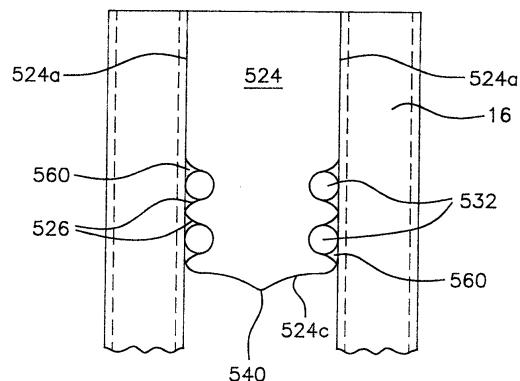
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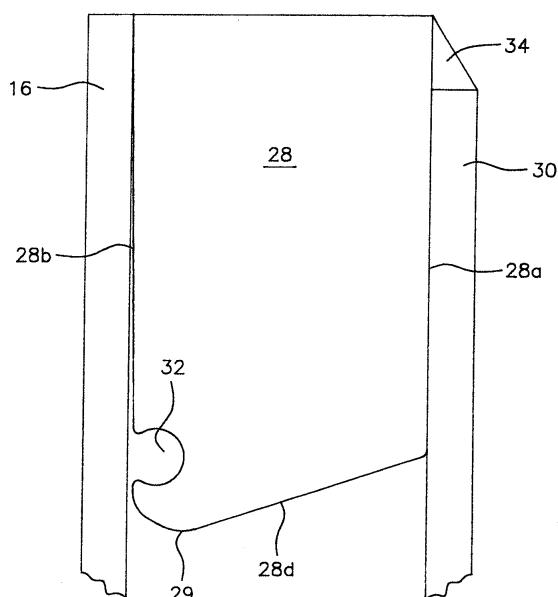
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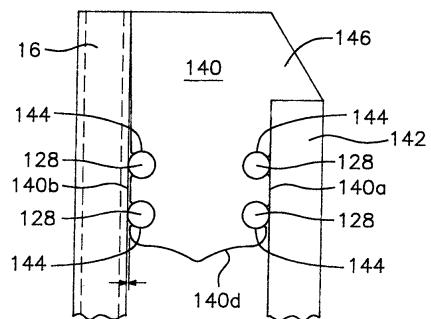
10



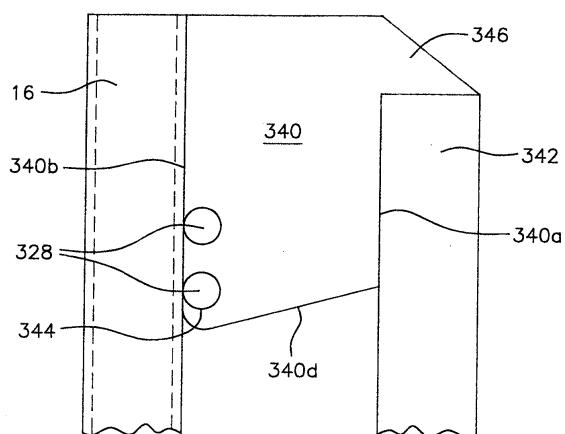
11



12



13



14

