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(22) 2003 08 05

2002 08 06 (US)

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(72) 12309 1372

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4		
5		
6	5	B - B
7		
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10		
<		>
10...	50...	
22...	18...	
20...	95...	
85...	28...	
36...	32...	
34...	24...	
65...	70...	
80...	40...	
90...	502...	(wake)
501...	407...	
507...	607...	
700...		
308...		
309...		
609...	610...	
304...		
301...		
401...		
410...		
409...		

220...

00 1300 , 가 (O 2-) . 6

(interconnect),

, (10), (50) , 가
 , (18) 2 (20) (95) (28) (40) (28) (50) (40) (28) (36) (50) , 가
 , , , , , , , , ,
 , , , , , , , , ,
 9 (22) (18) (32), (20) (20) 가 (18) (18) (34), (22) (22) (O²⁻) 가 (O²⁻) 가 (O²⁻) (65)
) 가 (22) 가 , 가 , , , , , , ,
 (22) (yttria)- (Ni-YSZ), (Ni-YSZ), (Cu-YSZ),
 (18) , , , , , , , , ,
 8) SLM), (YSZ), (In₂O₃), (perovskite doped) PrMnO₃, LaFeO₃-LaCoO₃ RuO₂ LaMnO₄ (1
 800 (22) (18) (10) , , , , , , , , , (22) (13)
 (22) (18) (20) (20) (50) 가 (18) (22) (20) (O²⁻)
 (doped ceria), (CeO₂), (pyrochlore), (YSZ),
 ,
 (24) (24) 가 (22) , 가 (18)
 , , , , , , , , ,
 (24) (CoCrO₄), (Inconel) 600, (Hastelloy X), (LaCrO₃), -230,
 (Ducrolloy), (Kovar), (Ebrite)
 1 2 (85) , , , (85) (95) (85) (95)
 (70) (40) (95) (80) 2 (70) (80)
 (40) (36) (36) (contour)
 (3) (4)

)

가 . , , , (10)

(34) . , (40) (40) 1,300 , (40) 가
 (LaCrO₃), (40) (CoCrO₄), 600, 601, X, -230,

, (40) , (40) , (passive)

(LaCrO₃), (40) (CoCrO₄), 600, 601,
X, -230,

$$(\begin{array}{cc} 3 & 4 \end{array}). \quad , \quad (95) \quad (220) \quad 5 \quad 20\% \quad (34)$$

(501)

가

³ , ⁴

2 (507) (packed) (407) (4).
 (507) (507) (607) 5 40 (700)
 , 2 (507) (507) (607) 5 50 (700)

(301) , (304) (3).

,		(401)			(95)	
,	(401)		1	5	(430)	
,	(401)			1	10	(430)
,			(410)			
,	(410)			(95)		
,	(409)				(95)	

4).

(40) 2

(507) 가	, (40)	(507) (50)
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1 4	, 5
. 6 7	

(22)

, (18)	, (20)
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(24) Re No.	(40) 9	Re No.
Re No.	, (501) 가	, 8
, (502)	Re No.	(501) 가
,	(10) 가	가

, 가	, 가	, 가
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(95) (501)	(40)	(95)	가
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, (10) 가

(57)

1. (22), (18) (20) (50);

(22), (18) (20) (24);

(50) (95);

(95) (40) (95) (10). 가

2.

1 , , , ,
(50) 가 , , , (10).

3.

1

(40)가 (10).

4.

1

(40)가 (10).

5.

1

(40)가 (507) (407)

(10).

6.

(70)

(70)

(80)

(85);

(40) , (10) (85)

(95).

7.

6

(28),

가 (28)

(10)

(

(28)
95).

8.

(86);

(10) (86) ,
가 (95).

(308) (86)

9.

8 ,

(28) (28) (36) , (308)가
(95). (10)

10.

(22), (18)

(20)

(50);

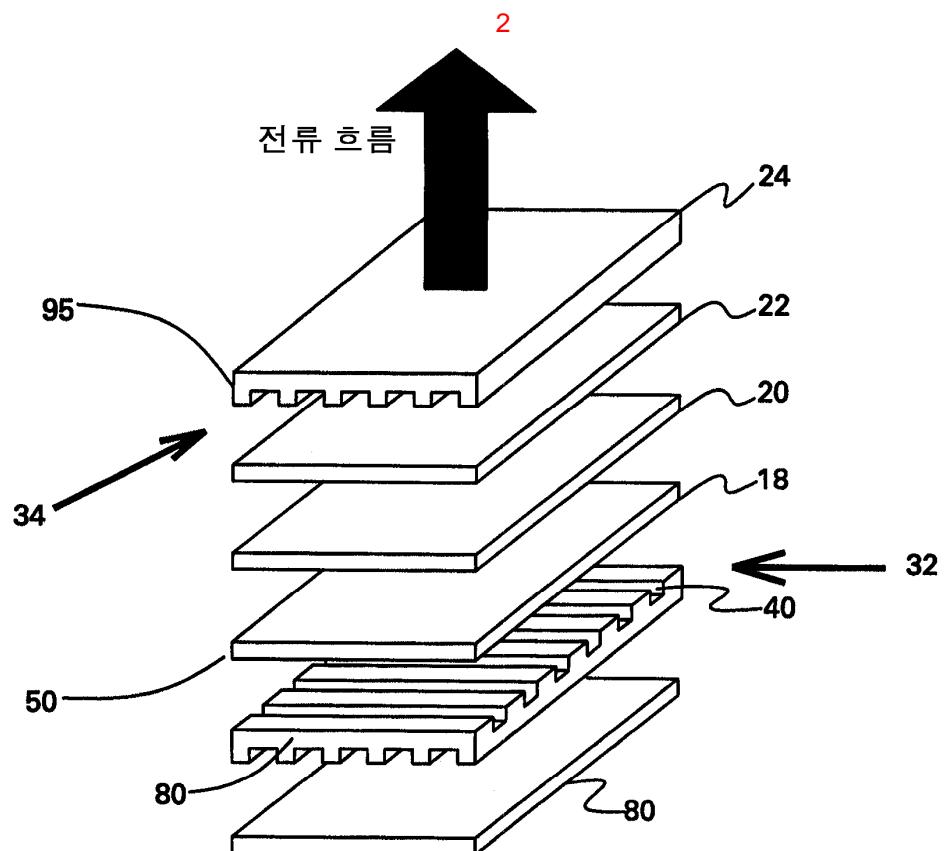
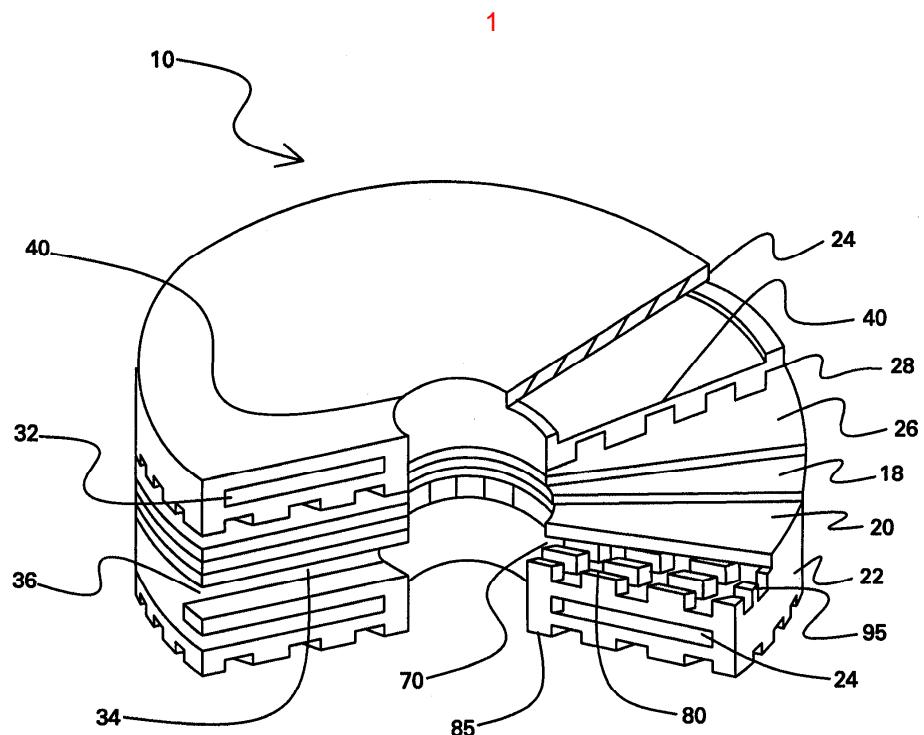
(22), (18) (20)

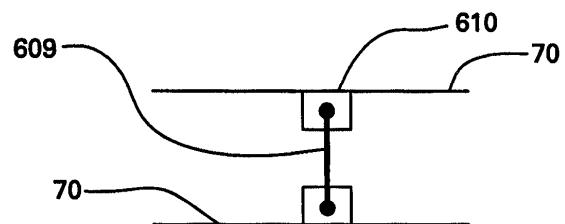
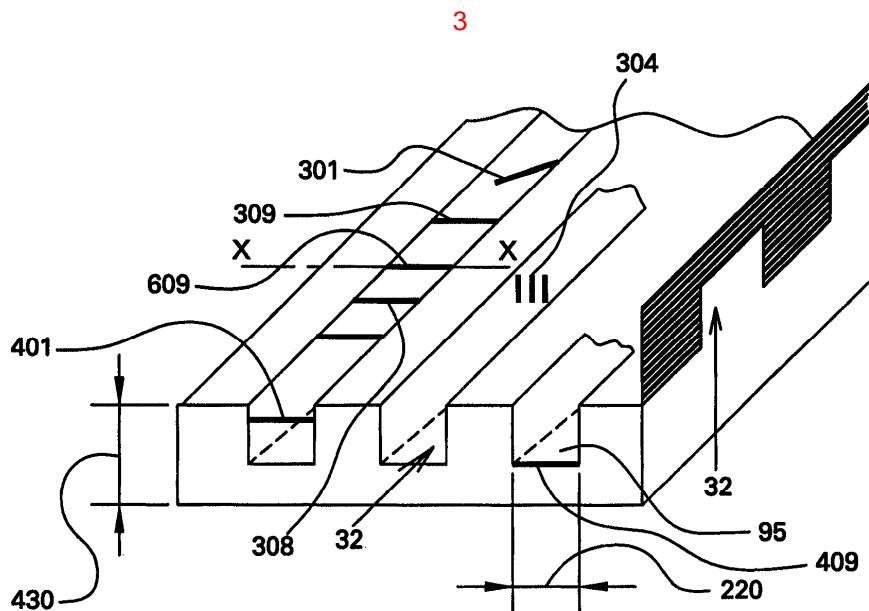
(24);

(50) (28);

(36);

(28) (36)
(40) (10).



단면 X-X