

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

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(11)
(43)

10-2004-0006665
2004 01 24

(21) 10-2002-0041005
(22) 2002 07 13

(71) 20

(72) 307 303

83-3 107 103

45-1 308 2204

2 204 905

3 313 602

가 14-5LG H 324

가 14-5LG H 327

가 17 105 208

(74)

:

(54)

(100) , (C) (101) , (101)
(102) (C) , (102) ()가
(C) (C) (102) ()가
가 , . (C)

3

1

2

3

a)

b)

4

a)

b)

*

*

100 : 101 :

102 : C :

가

, 가가

, ()

)

(ANODE) (CATHODE)
가, (가

LNG, LPG, CH₃OH, 가
(H₂) 가

(CH₃)
PEMFC

BH₄ -

BFC

BFC 가 1, 2
(10)

, BH₄ - , (1)

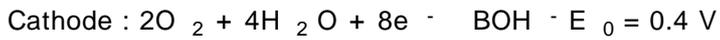
, (2) (10)

(3) BH₄ - (4)

(3) (5)가

(2)가

(10) (6) (7) (6)
 (8)가 .
 (10) (21) 가 (22) (23) ((24)
 MEA:MEMBRANE-ELECTRODE ASSEMBLY)(24) , - (24)
 (22) (23) 가 (31) (22) (23) (BIPOLAR PLATE)(25) ,
 (25) (22) (23) (27)
 가 (5) (2)
 BH₄⁻ (3) (10) (22)
 (8) (6) (10) (23) 가
 (10) BH₄⁻ (10)
 (22) 가 (23) (27)



(10) (1)
 가
 가

가

가

3

(100) (C) (101) (C) / (C) (101:101-1,101-
 2, ...101-N) (C) (101) (C) / (102:102-1,

102-2, ...102-N) .

, (C) (C) (102:102-1,102-2, ...102-N)가 .

3 a) (102:102-1,102-2, ...102-N) (100) () 가 .
, (100) (C) (102:102-1,102-2, ...102-N) 가
(C) (C) (102-2) (C) ()가

3 b) (C) (100) (C) (102-2) .
, (100) 가 (C) 가 가 ,
(C) (100)가 가 가 .

4 (110:110-1,110-2 ...110-N) , (100) 3 . , (101)
(C) .
가 (100) a)
(102:102-1,102-2, ...102-N) ()가 , (C)
b) (C) (100) (C) (102-2) ()가 ,
(C) 가

()가

가

가

(57)

1.

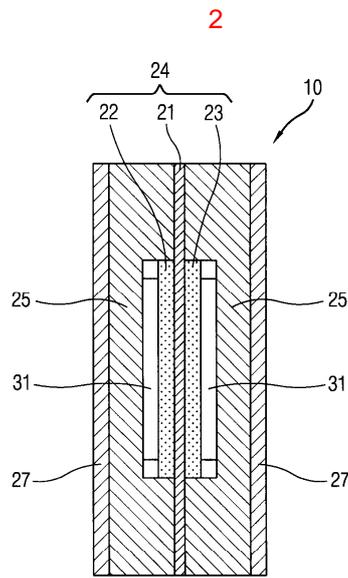
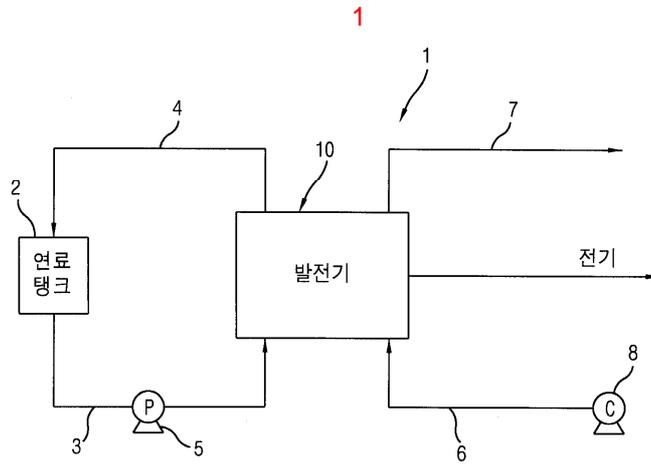
2.

3.

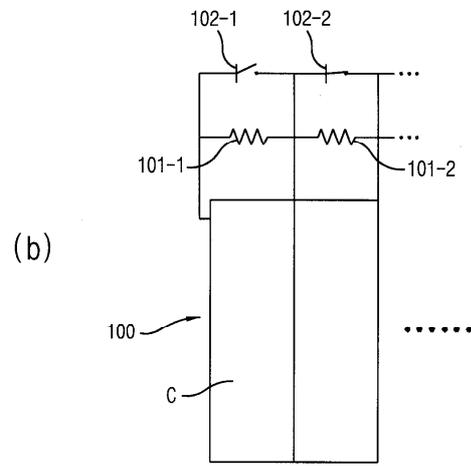
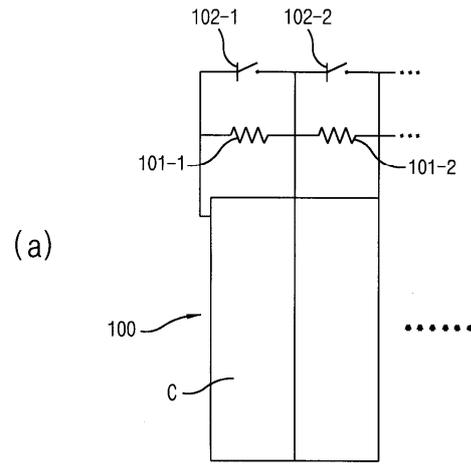
1

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가



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