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(12)

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(51) 。 Int. Cl. 7
H01M 10/04

(11)
(43)

2003 - 0008512
2003 01 29

(21) 10 - 2001 - 0043191
(22) 2001 07 18

(71) 146 - 8

(72) 1101 - 2 104 901
146 - 8

(74)
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(54)

(30) (41) (20) (30) (42) (40)
(30) (42) (20)

3e

1

2a 2b

3a 3g

*

*

20 : 21 :

21a : 30 :

31 : 31a :

40 : 41 :

42 : 50 :

100 :

,

(electrochemical oxidation - reduction reaction) (; active material) (electrical energy) -
 (cell) , (single cell)
 가

1

electrode) (10; electrode), (cathode or positive electrode) (anode or negative
 가 , 가 ,
 (electrolyte) (separator)
 가 ,

가

()

가

anion(negative ion) cation(positive ion)
가

2a 2b

2a 2b

(2b) (4) (4) (3) (4a) (2) (1) () () (2) (2a) (5)
(3) (2) (4) (3) (2)

2 1

2 1

(30) (40) (41) (20)
 (30) (42) (20)
 (30) (21) (31) (21a) (31a)
 가 .
 , (21a) (31a) (21) (31) (42)
 (100) (20) (30) (50)

(42) (20) (100) (41) (40)
 (20) (30) (30)

(42) (20) (40) (20) (30) (41) (30)
 (20) (41) (42)
 가 .

(57)

1.

(20) (30) (40) (S10) (42) (41)

2 1 (42) (20) (41) (20) (21) (S20) ,

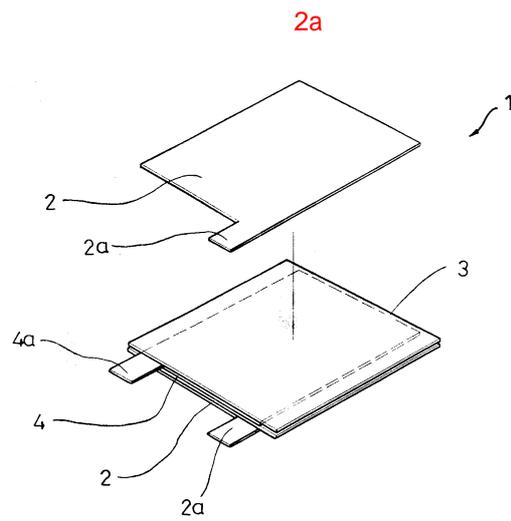
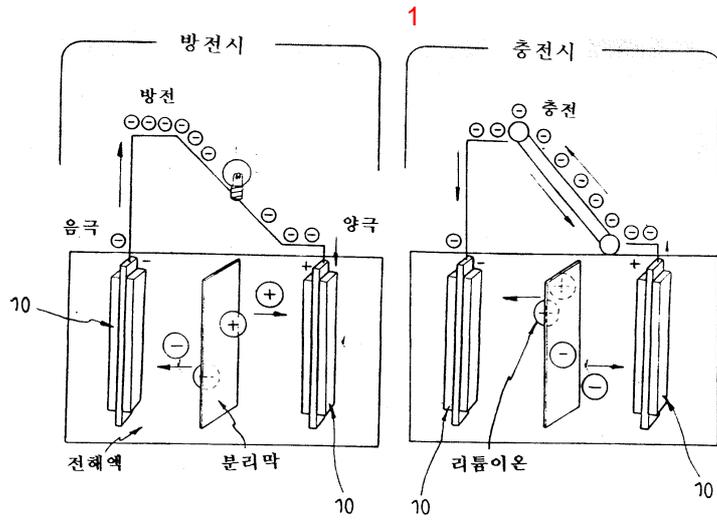
(20) (S20) (42) (40) (20) (41)
 (S30) , (40)

2 1 (42) (30) (41) (30) (31) (S40) ,

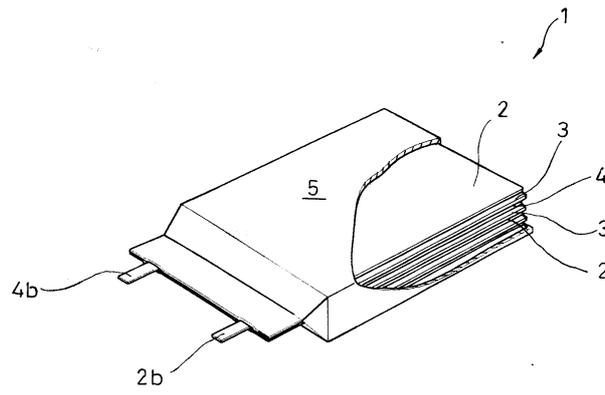
(20) (30) (41) (42) (S50) ,
 (41)

(20) (21) (30) (31) (21a) (31a)
 (S60) ,

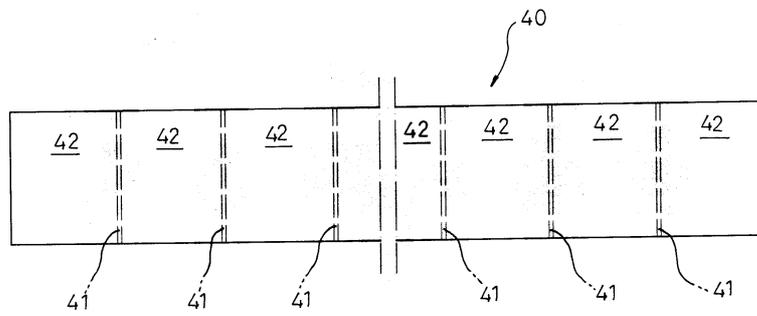
(42) (20) (30) (50)
 (100) (S70)



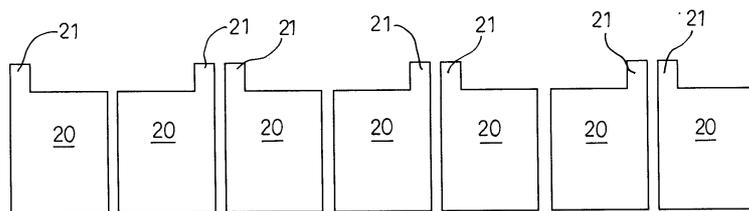
2b



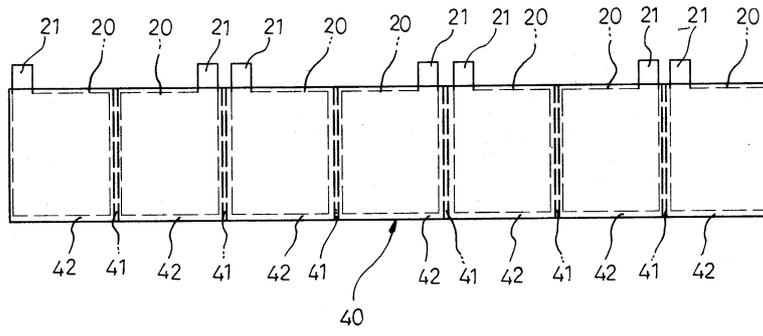
3a



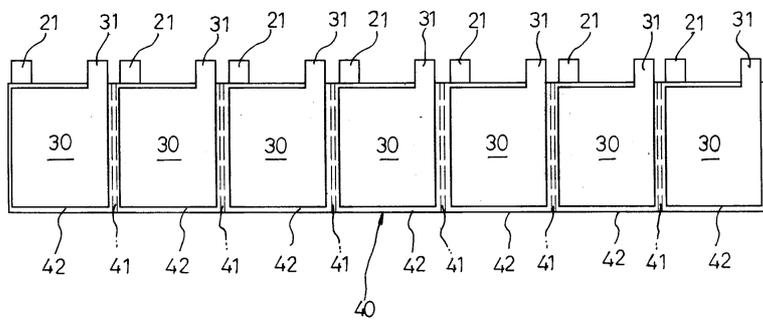
3b



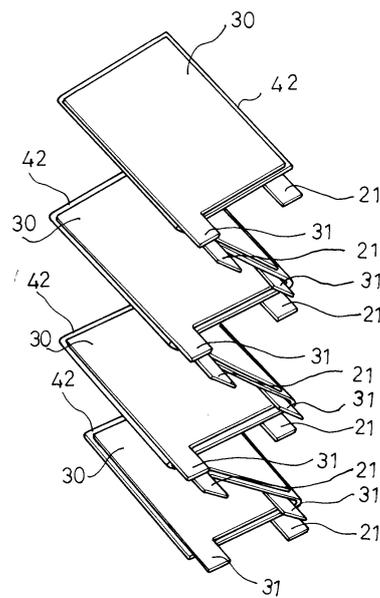
3c



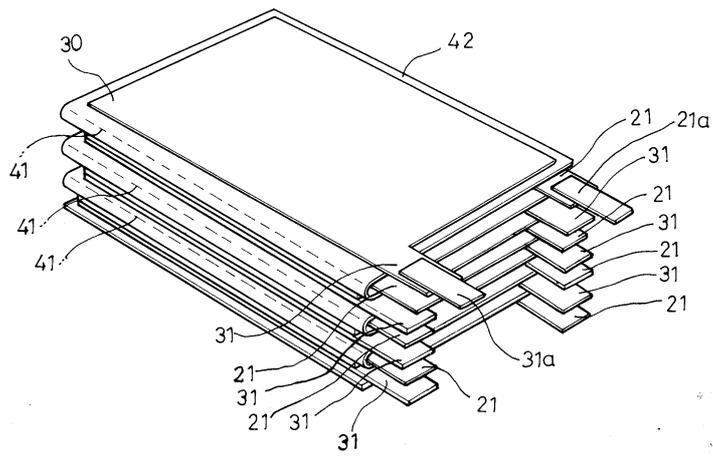
3d



3e



3f



3g

