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

(11) 10-2010-0041723
(43) 2010 04 22

(51) Int. Cl.
G09F 13/20 (2006.01) *G09F 13/04* (2006.01)
(21) 10-2010-0021911( )
(22) 2010 03 11
2010 03 11
(62) 10-2007-0019335
2007 02 27
2007 02 27
: 3

(71)
704
103-802
(72)
704
103-802
(74)

(54)

(57)

, , , .

, Display , , , Scratch Scratch (11) , , ,

1

1 2
, , Scratch ,
Scratch , Filter ,
, Scratch , , ,
, Display .

2

1 Lamp(6) (2,3,4,) Scratch Scratch
2 (Guide Ligth Panel) ,
, , , ,
, Display , Lamp ,
, , 360 Slim
Display .

3

1 LED LAMP CAP PLC MODULE CAP
, Display
Display .

[0001] 4 (PLC) , Display
, , , (7) ,
(Illumination Light) , , Scratch
(11) (Color) , Seting ,
Display
(AD Lighting Bdard) .

[0002] (Back Lighting)
Display , ( )
, , , ,

[0003] Lamp (Lamp) .
(Frame) , ,
WATT (
) (Color Sheet) ( ) ( ) ,
,
SCRATCH
,

, Display .

[0004] , , Board . , , Display .

[0005] , , Scracth Scratch (11) (Sand Blast) , Lamp(6) , , , ( ) , ( ) , LED , LED , Display , , (,) Display Stand .

[0006] .

[0007] 1 ,

2

3 1 X-X

4 ,

5

6

7 (a), (b), (c), .

8 .

9 1 X-X .

10 Scratch

[0008] , , , . 3 (2), (3), (4) (18) , (2), (3), (4) Lamp(6) Lamp(6) , Lamp(6) PLC(11) (1) , , Cap(24) LED Lamp(22) , Board (8) PLC(11) , 4 , (21) Board , (2), (3), (4) 4 (14)

(18) , ,
(2), (3), (4) 2 5 (2c), (3c), (4c)
, (2c), (3c), (4c) (5) ,
(13) ; (2c), (3c),
(4c) (13) Lamp (9) , (8)
(4) (7) ;
(2), (3), (4) ,
(5) Scratch Scratch (11) ,
(2) ( ) Scratch
(3) (Guide Light Panel)
( ) (Scratch on
the Plate) Scratch (17) , (3)
(4) (Scratch) (Color sheet)
(15) , (Guide Light Panel) scratch
Scratch ( ) Color Flim
, (2), (3), (4) 4 2 5
(2c), (3c), (4c) , (2c), (3c), (4c) (Color),
(Luminosity), (hue) (color band)
(color) , (2), (3), (4) (14)
(7) (2), (3), (4) ,
(cubic effect) . (1)
4 1 -4 Lamp
(18) PLC(Programmable Logic Controller) ,
("A" "B") (Animation) (7) ,
, , Scratch (Scratch on the plate)(17)
, (17) (15) ,
, Display
Stand . (1) Lamp(6)
5mm Lamp(6) , (2), (3), (4)
(Display surface)(5) (mirror),
(19) .

[0009] Scratch (11) , ,
, ,
(Cubic Effect) . (8) (7)
.
.

[0010] 1 , 2 ,
3 (2), (3), (4) (2),
(3), (4) (18)
Lamp(6) Lamp(6) PLC(11) (1:display board frame)
(8) .

[0011] (2), (3), (4) , 3
4 0.5mm-3mm (14) (18)
. (14) (2), (3), (4)
,
.

[0012] (2), (3), (4) (18) PLC(11) 4
(2), (3), (4) ,

(Animation) (7) ,
.

[0013] (2), (3), (4) (5)
, (4) (8)
(7) .

[0014] (4) (7)
, (1)
(8) (Board) (3-2) ,
Lamp(6) (2), (3),
(4) 4 Lamp(6) , 2c, 3c, 4c
.

[0015] (2), (3), (4) 4 3 , 2 3
, V 2 W 4
, .

[0016]

[0017] Scratch (11) , ,
,
,
. Cuting
, Sand Paper (2c),
(3c), (4c) Display Light Stand
(13; color sheet)
Color band .

[0018] (13) (color band) (color), (luminosity) (hue)
, ,
.

[0019] 4
, LOGO Scrach
LOGO .

[0020] 6
Scratch ,
. 2, 3, 4 Lamp(6)

.

[0021] 4 (2c) 3 (Profile) .
4 (2) (Segment)(2c-1) , 2c-2 , 2c-
3 (Scotchcal Marking Film)(13) . ,
(2c-1), (2c-2), (2c-3)
Scratch (display board)
(display surface)(5) (LOGO) , .

[0022] Lamp(6) (2c), (3c), (4c) .
Lamp(6) (2c), (3c), (4c) Fan (28) Lamp(6)
, Lamp ,
.

[0023] , Lamp(6) (2c), (3c), (4c) (13) (2), (3), (4) , (2a), (3a), (3b), (4a), (4b) , Scratch (2a) Scratch (17) (5) [, { (15)}] .

[0024] (5) , , , (7) (8) .(3-2)

[0025] (2), (3), (4) Scratch 3 , (5) (2) (5) (2a) , (3), (4) (3a), (3b), (4a), (4b) , (2) (3) , , , , , Scratch (2a,3b,4b) Scratch (11) .

[0026] (2) (5) , , , Mirror, (protaction cover)(19) .

[0027] , , Dial , (floor) (display board) , (Brick of Side Walk) (brick of Side Walk Display Board) , (,) Display , .

[0028] , . 2 , 3 Display (mirror) (19) , (3) , 2-3 Scratch (11) , (3) , 2 3 , Lamp(6) 2,3 (display) , Display , Scratch CNC , ,Sand Blast, , stand , Lamp(6) , , Dial Logo, , , ,move-ment Display , , , , , (Display board) (19) (balance) (,) . (brick of Side Walk Display Board) .

[0029] , 2 3 1 "KOREA CHINA" .

[0030] (2) KOREA KOR(2a) , (3) (2) KOR(2a) KOPEA EA(3a) , (4) CHINA CHI(4a) , (4) CHI(4a) NA(4b) , "KOREA CHINA" (5)

.

[0031] , (2), (3), (4) (2c), (3c), (4c) (13) Lamp(6) , (2), (3), (4) , .

[0032] (2) (2c) 3 , , (3) (3c) 2 , (4) (4c) 2 CHI(4a) (13)(Scotchcal Marking Film) , NA(4b) Lamp(6) , (2) KOR(2a) , , , (3) EA(3a) . 1 KOREA , , , .

[0033] (4) CHINA CHI(4a) NA(4b) 1 "KOREA CHINA" 6 .

[0034] Scratch , (2c), (3c), (4c) Lamp(6) ,

[0035] (2) (16) , (3) (17) (15), (4) (15) , (5)

(Cubic Effect) .

[0036] , , , , Board . , .

[0037] (2), (3), (4) (2c), (3c), (4c) (13)(Scotchcal Marking Film) Lamp(6) (18) PLC(11) .

[0038] , (2), (3), (4) (2c), (3c), (4c) , , , , 4 (13)(Scotchcal Marking Film) , (13) , Lamp(6) PLC(11) , (2), (3), (4) Scratch

, 7 (a), (b), (c) (Animation) .

[0039] PLC(11) Lamp(6) (on-off) (fade-in, fade-out) (7) . , (2), (3), (4) 7 (a), (b) (c) (7) . , , , .

[0040] Display Board , , , LED

LAMP CAP LED LAMP ,
, PLC LED , CAP ,
, , ,
, ,
, , . (BOARD) , ,
, .

[0041] , , , , ,
1, 2, 8, 9,
(24) LED CAP(23) , , (26) LED LAMP
,CAP(23) (31) LED CAP , SETING , (26) (27)
FAN(28) LED LAMP(22) PLC(11) (1)
(21) , (1,21,)
(29) (30) .

[0042] * LED LAMP CAP LED LAMP (2
5) CAP 0.8cm 1.5cm LED LAMP (25) LED
LAMP 2/3 ,LED LAMP(22) CAP (24)
CAP (25) SAND PAPER .

[0043] 8, 9, , CAP SETING (31)
CAP , , .

[0044] 1, 8, 9, ,
, ,
, 8 CAP 4 LED LAMP SET
, (31) ,Module (26) (27) , (
Remotecontrol) PLC CAP
(24) 4 1
,
. LED CAP LED LAMP MODULE
.

[0045] 1. 2,3,4,:

5: 6:

7: 8:

11:PLC 13:

14: 15:

17: Scratch 18:

19: 22:LED

23:LEDcap 24: cap

25: cap 26:

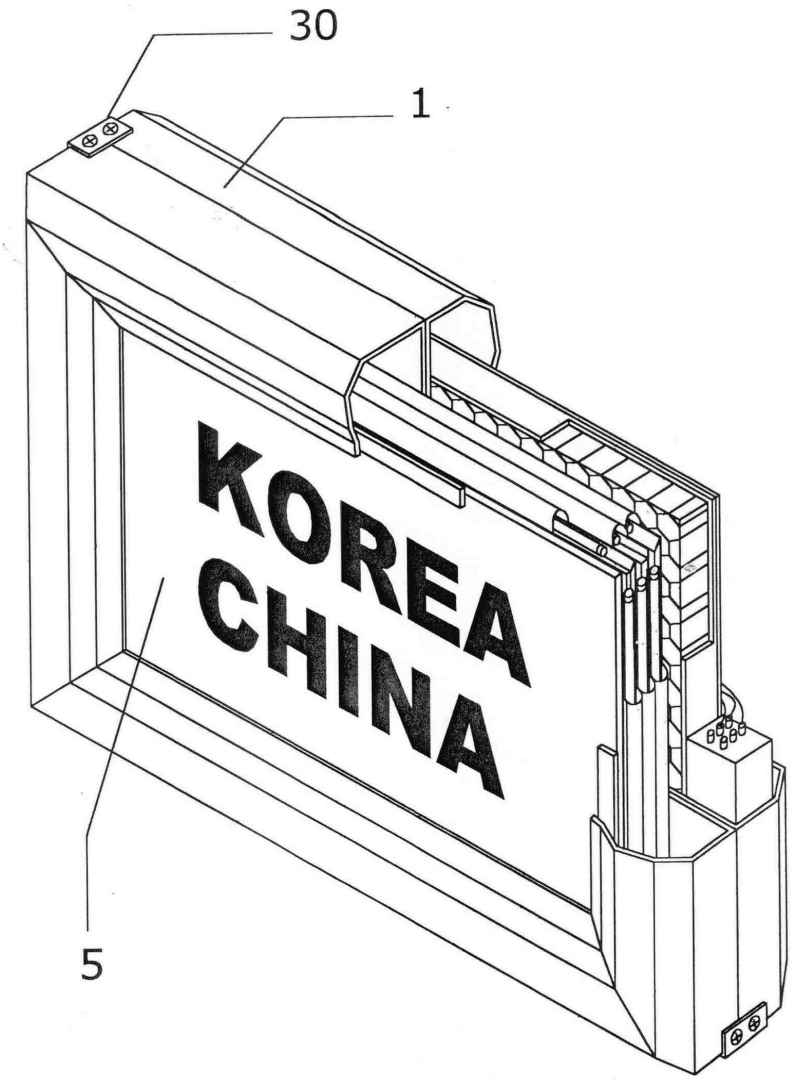
27: 29:

30: 31: cap

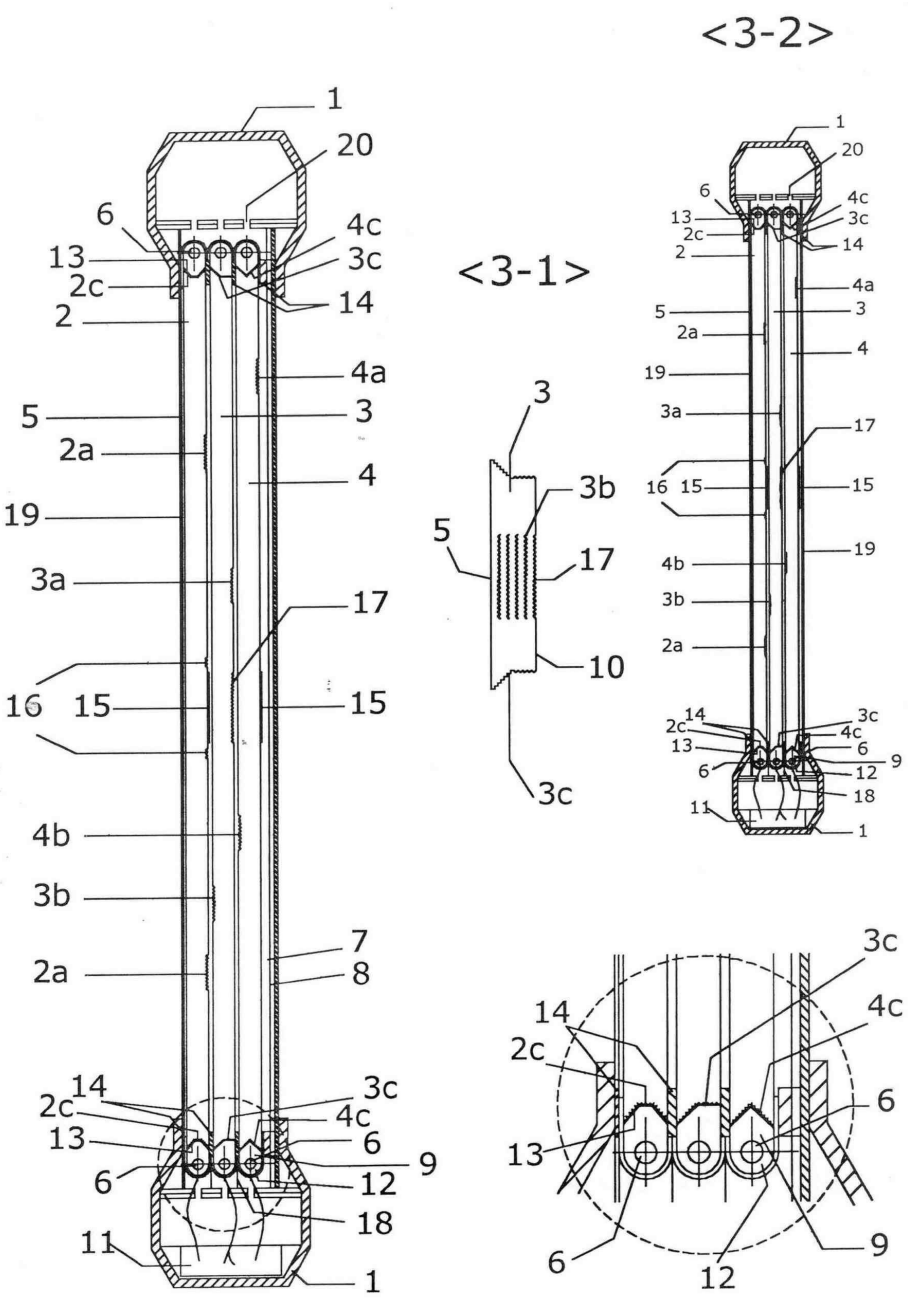
1



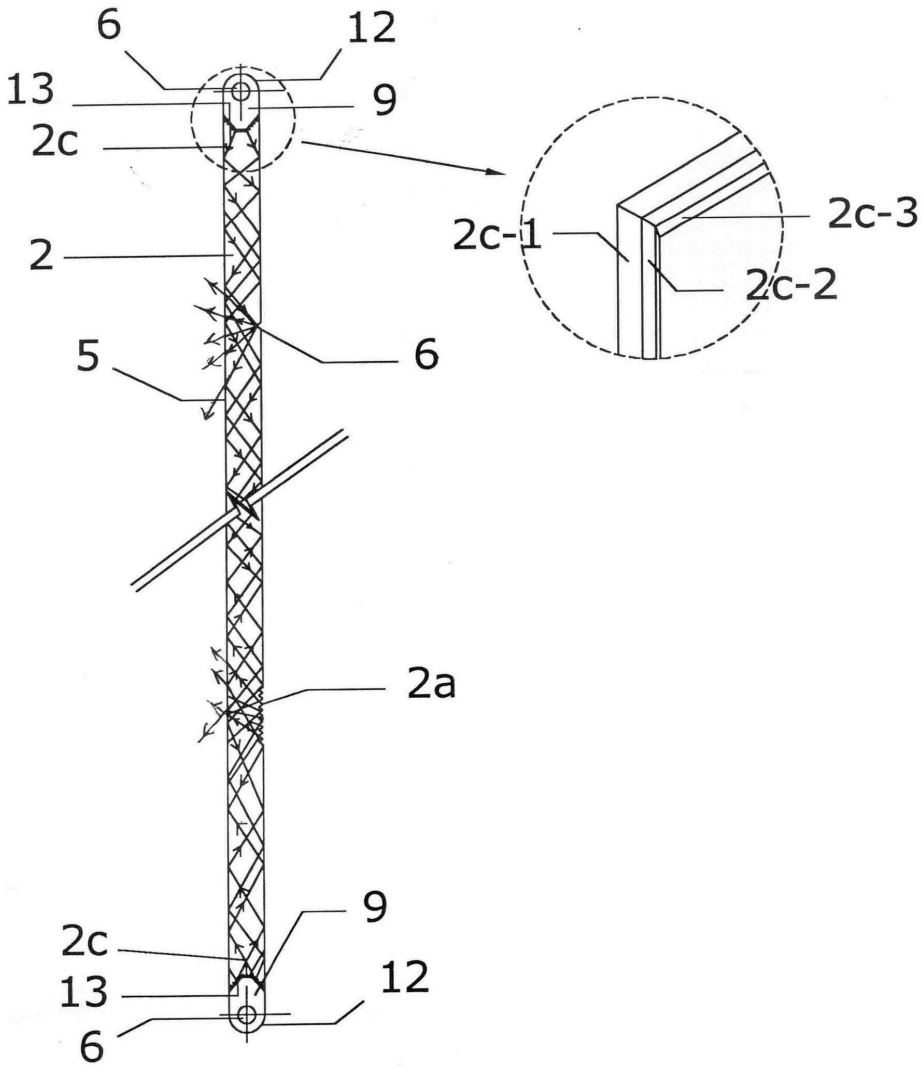
2



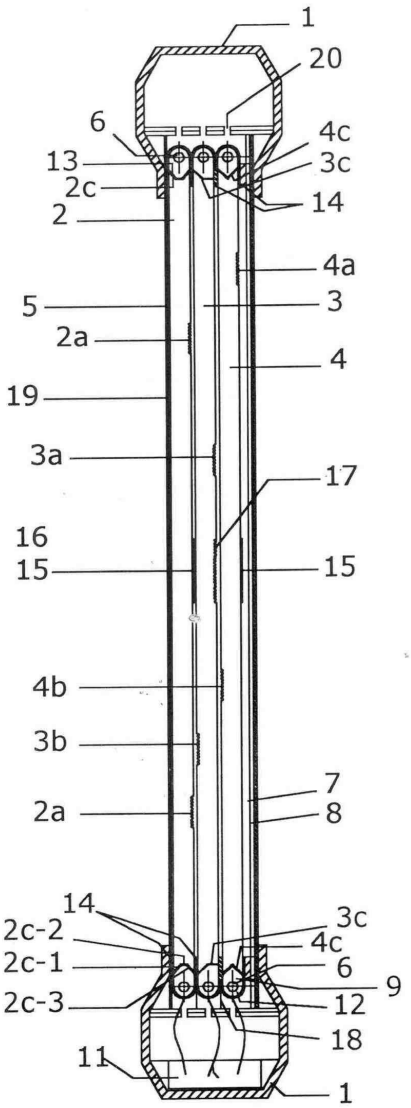
3

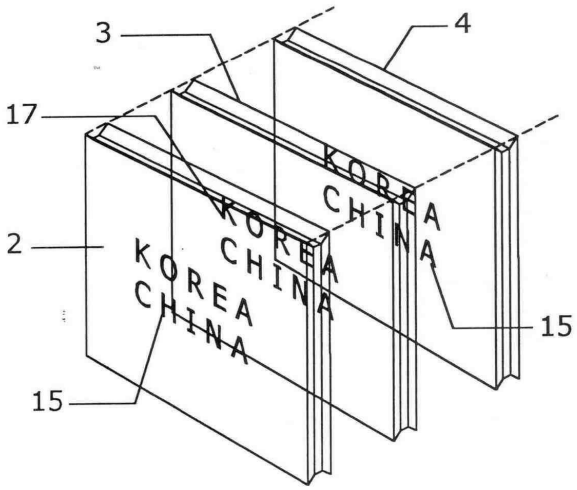

1
20
6
4c
13
3c
2c
14
2
4a
5
3
2a
4
19
3a
17
16
15
15
4b
3b
7
2a
8
14
2c
3c
4c
13
6
9
6
12
18
11
1
<3-1>
3
3b
5
17
10
3c
<3-2>
1
20
6
4c
13
3c
2c
14
2
4a
5
3
2a
4
19
3a
17
16
15
15
19
4b
3b
2a
14
2c
3c
4c
13
6
9
6
12
18
11
1
3c
4c
14
2c
6
13
9
6
12

4

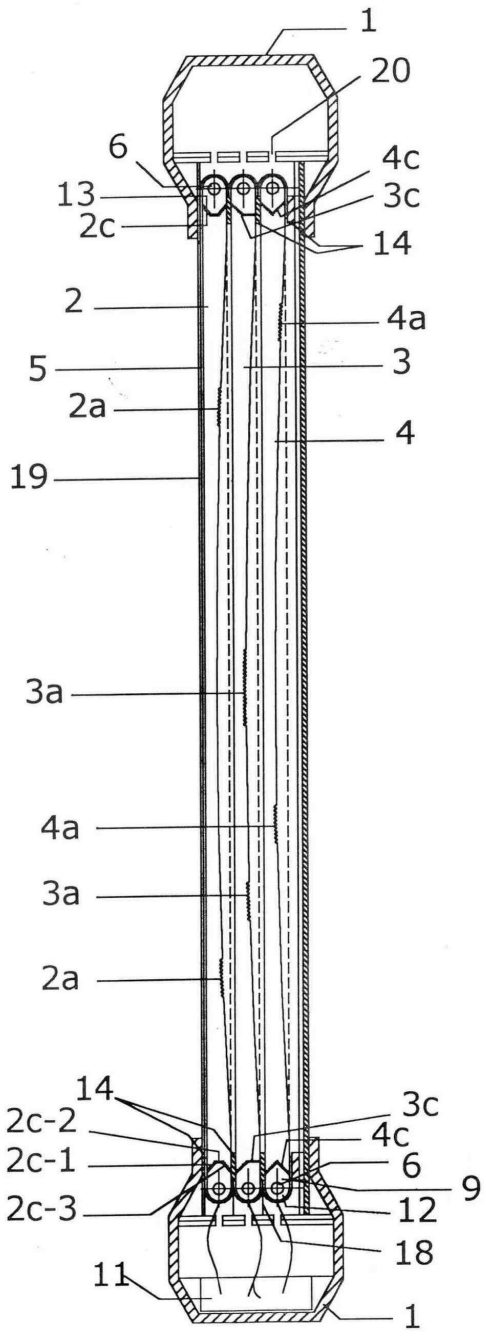


5


1
20
6
4c
13
3c
2c
14
2
4a
5
3
2a
4
19
3a
17
16
15
15
4b
3b
7
2a
8
14
3c
2c-2
4c
2c-1
6
9
2c-3
12
18
11
1


3
4
17
KOREA
CHINA
2
KOREA
CHINA
KOREA
CHINA
15
15

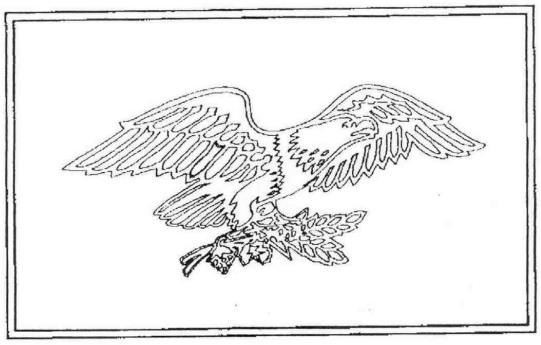
6


1
20
6
4c
13
3c
2c
14
2
4a
5
3
2a
4
19
3a
4a
3a
2a
14
3c
2c-2
4c
2c-1
6
9
2c-3
12
18
11
1

7

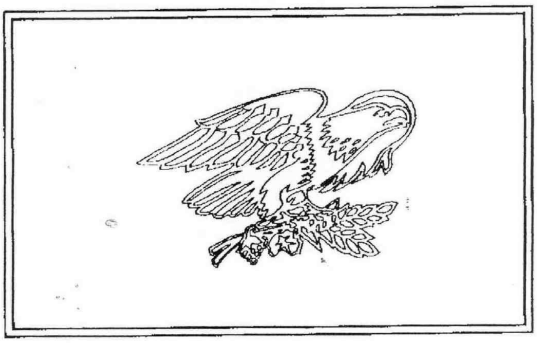
(a)

2



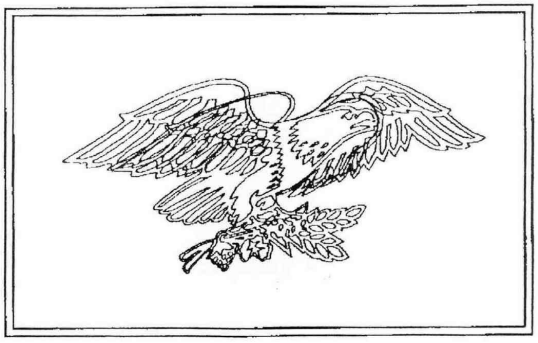
(b)

3

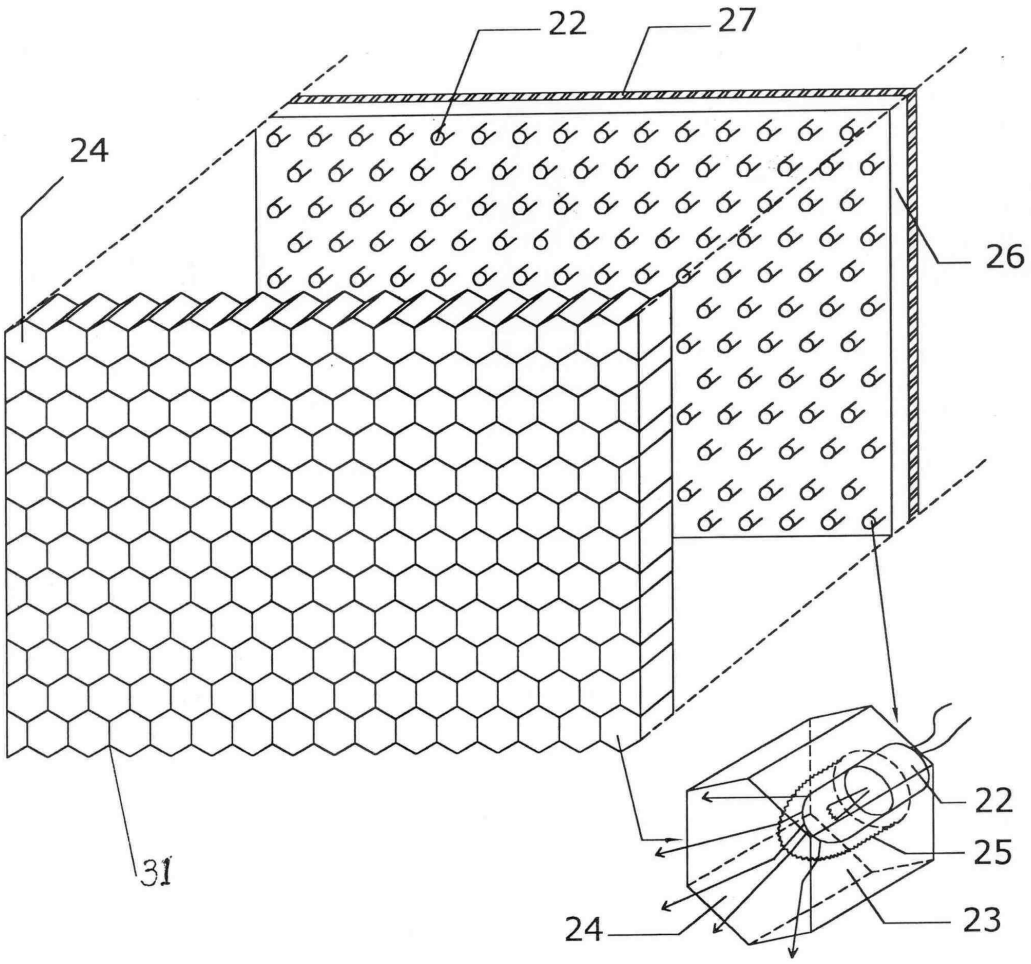


(c)

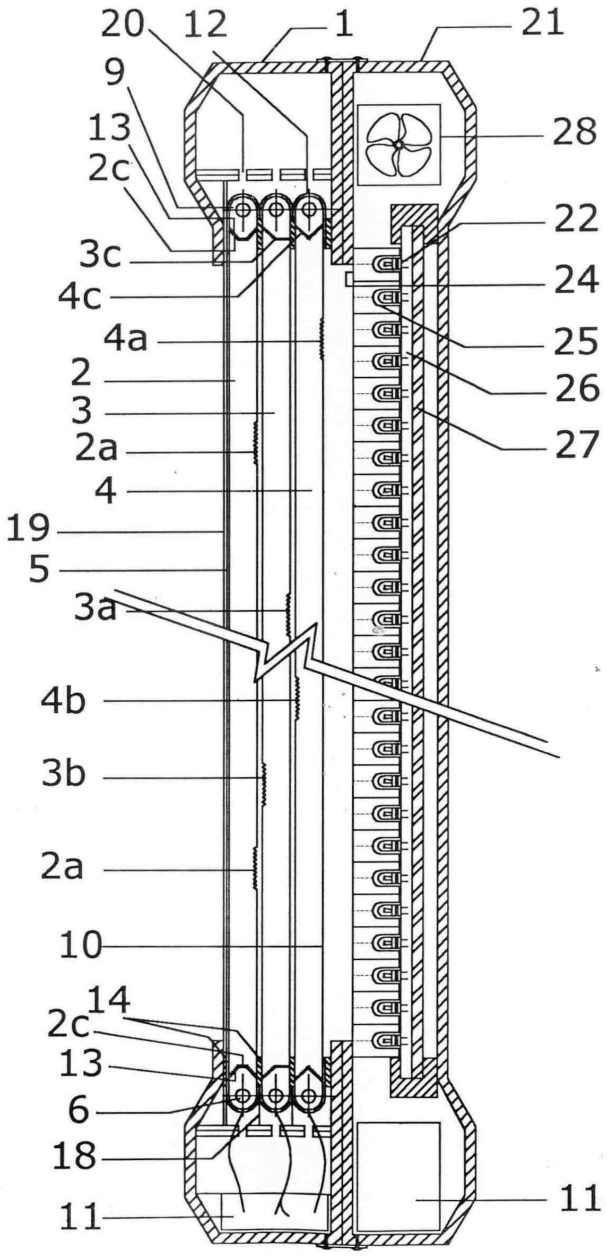
4



8



9


20
12
1
21
9
13
2c
28
22
3c
24
4c
25
4a
26
2
27
3
2a
4
19
5
3a
4b
3b
2a
10
14
2c
13
6
18
11
11

10

