

# (12) United States Design Patent (10) Patent No.:

Fukunaga et al.

US D507,778 S

(45) Date of Patent: Jul. 26, 2005

## (54) PATTERN FOR PLANAR BATTERY **ELECTRODES BASE**

(75) Inventors: Hiroshi Fukunaga, Osaka (JP);

Mitsuhiro Kishimi, Osaka (JP); Masao Morishima, Osaka (JP); Toshihiko

Yamashita, Osaka (JP)

Assignees: Hitachi Maxell Ltd., Osaka (JP);

Kushibe Manufacturing Co., Ltd.,

Osaka (JP)

Term: 14 Years

Appl. No.: 29/208,225 (21)

Jun. 25, 2004 (22) Filed:

#### (30)Foreign Application Priority Data

(51)	LOC (0)	CI	12.02
Dec.	25, 2003	(JP)	 2003-038079
Dec.	25, 2003	(JP)	 2003-038078
Dec.	25, 2003	(JP)	 2003-038077

(52) U.S. Cl. ..... D13/121; D13/119

429/233, 162, 146, 157, 152, 208, 209,

(56)References Cited

### U.S. PATENT DOCUMENTS

669,240 A	*	3/1901	Hobel 429/243
861,806 A	*	7/1907	Chronik 429/243
D46,834 S	*	1/1915	Knobloch D13/121
1,323,720 A	*	12/1919	Pocock 429/243
1,343,957 A	*	6/1920	Bickhart 429/243
D56,923 S	*	1/1921	Martenheim D13/119
1,381,008 A	*	6/1921	Polk 429/243
1,550,347 A	*	8/1925	Crissey 429/239
2,069,463 A	*	2/1937	Rueb 429/243
D332,082 S	*	12/1992	Cordes et al D13/121
6,096,455 A	*	8/2000	Satake et al 429/241

<sup>\*</sup> cited by examiner

Primary Examiner—Alan P. Douglas Assistant Examiner—Susan M Lee

(74) Attorney, Agent, or Firm-Akin Gump Strauss Hauer & Feld, LLP

#### (57)**CLAIM**

The ornamental design for pattern for planar battery electrodes base, as shown and described.

#### DESCRIPTION

FIG. 1 is a perspective view of a pattern for a planar battery electrodes base in accordance with our new design;

FIG. 2 is a front elevational view thereof, a rear elevational view thereof being identical;

FIG. 3 is a left-side elevational view thereof, a right-side elevational view thereof being identical;

FIG. 4 is a top plan view thereof, a bottom plan view thereof being identical;

FIG. 5 is an enlarged cross-sectional view taken along line **5—5** of FIG. **2**;

FIG. 6 is a greatly enlarged partial perspective view taken along line 6—6 of FIG. 1;

FIG. 7 is a greatly enlarged partial perspective view taken along line 7—7 of FIG. 2;

FIG. 8 is a greatly enlarged fragmentary view taken along line **8—8** of FIG. **3**;

FIG. 9 is a greatly enlarged fragmentary view taken along line 9—9 of FIG. 4;

FIG. 10 is a greatly enlarged fragmentary view taken along line 10—10 of FIG. 5;

FIG. 11 is a perspective view of a pattern for a planar battery electrodes base in accordance with a second embodiment of our new design;

FIG. 12 is a front elevational view thereof;

FIG. 13 is a rear elevational view thereof;

FIG. 14 is a left-side elevational view thereof, a right-side elevational view thereof being identical;

FIG. 15 is a top plan view thereof, a bottom plan view thereof being identical;

FIG. 16 is an enlarged cross-sectional view taken along line **16—16** of FIG. **12**;

FIG. 17 is a greatly enlarged partial perspective view taken along line 17—17 of FIG. 11;

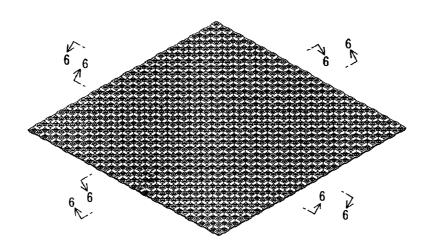


FIG. 18 is a greatly enlarged partial perspective view taken along line 18—18 of FIG. 12;

FIG. 19 is a greatly enlarged fragmentary view taken along line 19—19 of FIG. 13;

FIG. 20 is a greatly enlarged fragmentary view taken along line 20—20 of FIG. 14;

FIG. 21 is a greatly enlarged fragmentary view taken along line 21—21 of FIG. 15;

FIG. 22 is a greatly enlarged fragmentary view taken along line 22—22 in FIG. 16;

FIG. 23 is a perspective view of a pattern for a planar battery electrodes base in accordance with a third embodiment of our new design;

FIG. 24 is a front elevational view thereof;

FIG. 25 is a rear elevational view thereof;

FIG. 26 is a left-side elevational view thereof, a right-side elevational view thereof being identical;

FIG. 27 is a top plan view thereof, a bottom plan view thereof being identical;

FIG. 28 is an enlarged cross-sectional view taken along line 28—28 of FIG. 24;

FIG. 29 is a greatly enlarged partial perspective view taken along line 29—29 of FIG. 23;

FIG. 30 is a greatly enlarged partial perspective view taken along line 30—30 of FIG. 24;

FIG. 31 is a greatly enlarged fragmentary view taken along line 31—31 of FIG. 25;

FIG. 32 is a greatly enlarged fragmentary view taken along line 32—32 of FIG. 26;

FIG. 33 is a greatly enlarged fragmentary view taken along line 33—33 of FIG. 27; and,

FIG. 34 is a greatly enlarged fragmentary view taken along line 34—34 in FIG. 28.

## 1 Claim, 20 Drawing Sheets

Fig. 1

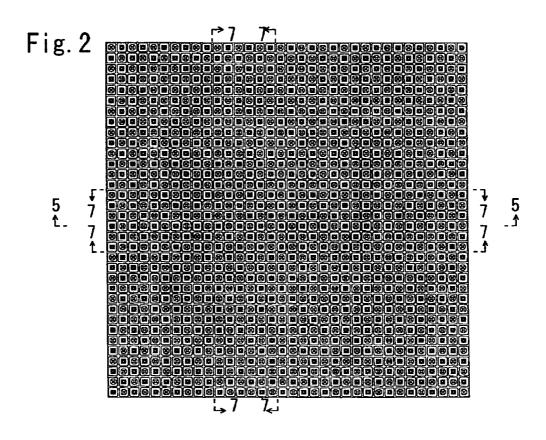
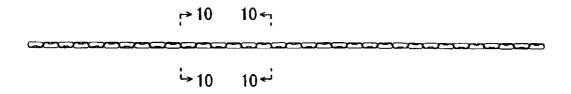


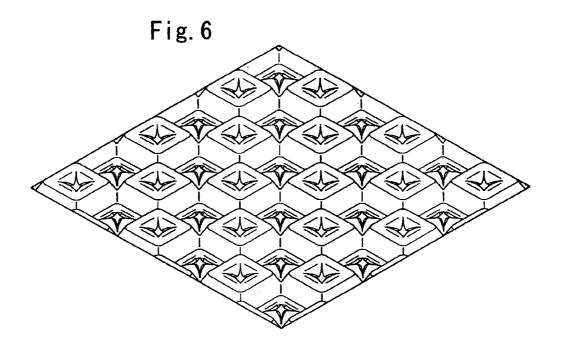
Fig. 3

Fig. 4

Jul. 26, 2005

Fig. 5





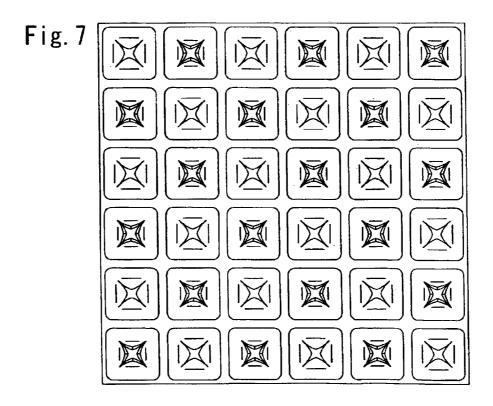


Fig. 8

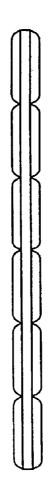
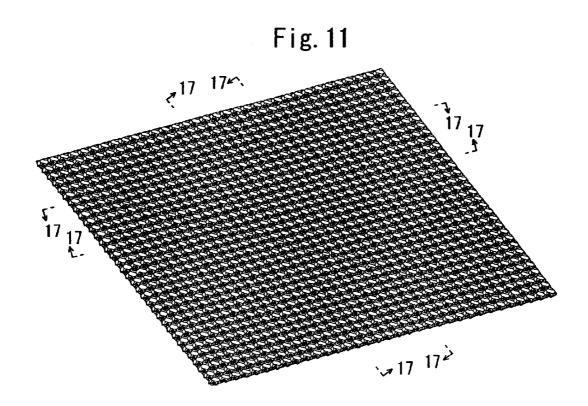


Fig. 9



Fig. 10





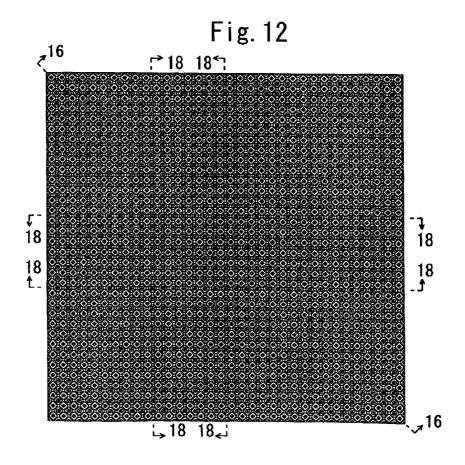


Fig. 13

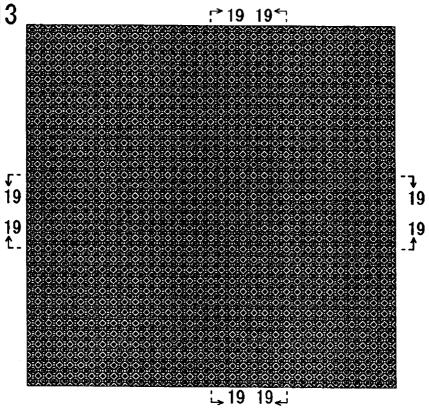


Fig. 14

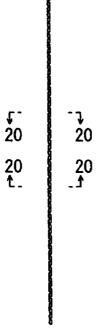
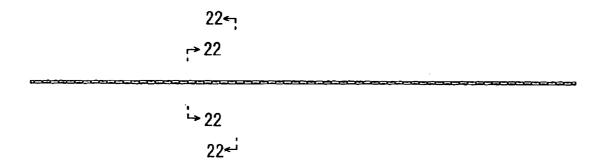


Fig. 15

Fig. 16



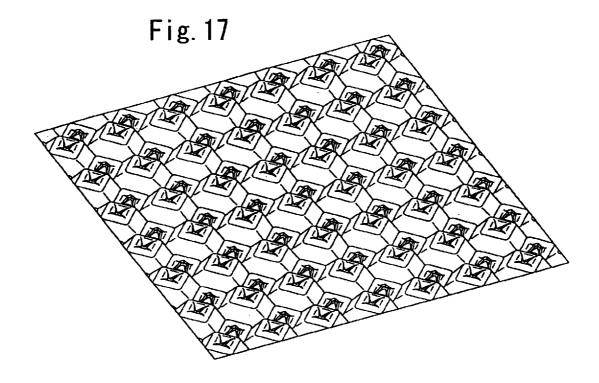


Fig. 18 🛭

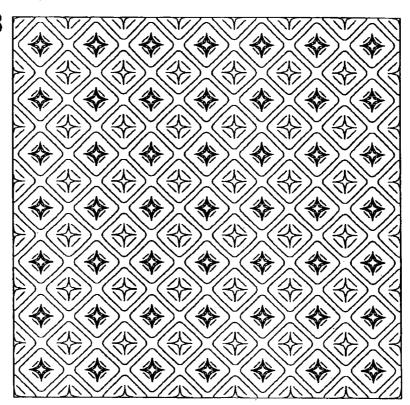


Fig. 19

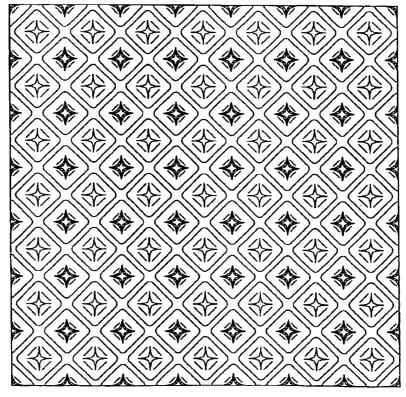






Fig. 21



Fig. 22



Fig. 23

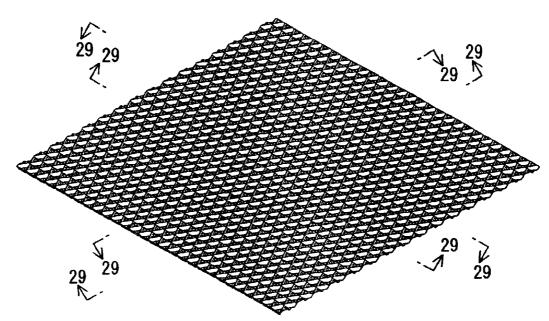
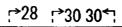


Fig. 24

30 t\_

30 1. Jul. 26, 2005



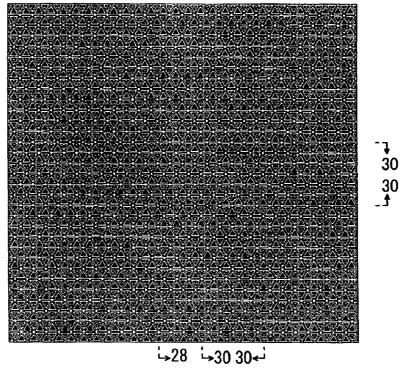
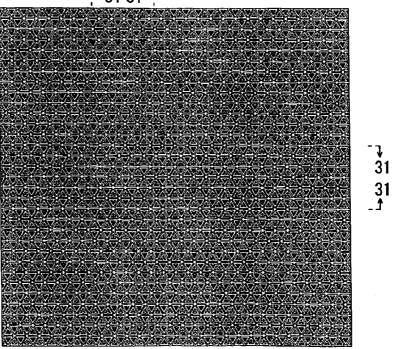


Fig. 25

↓ 31

31 t.

**;→31 31**←;



ن-31 31جا

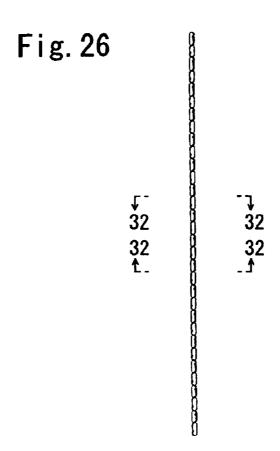
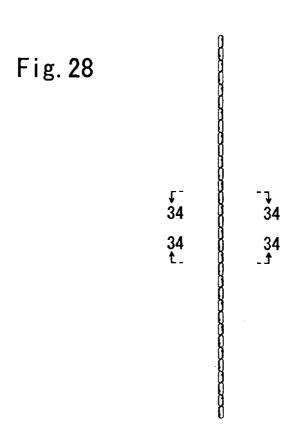


Fig. 27

; →33 33 ← i



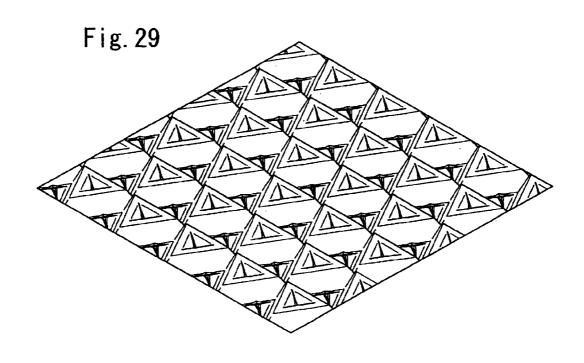


Fig. 30

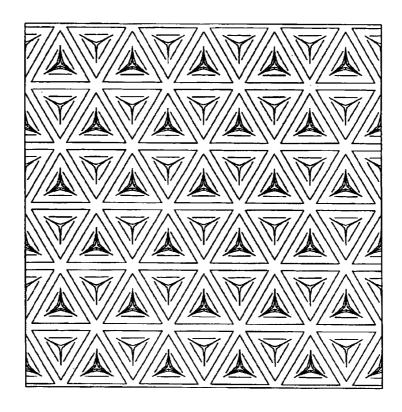


Fig. 31

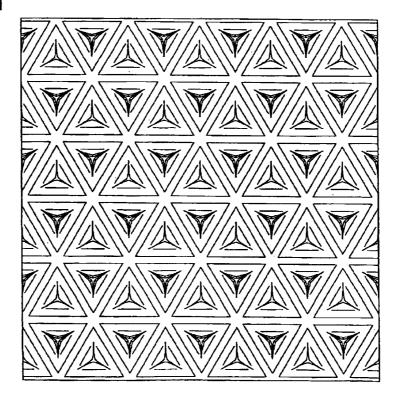


Fig. 32



Fig. 33

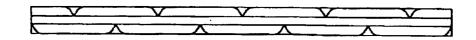


Fig. 34

