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(12) **United States Design Patent**  
**Harnden et al.**

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(54) **PORTION OF A MATRIX FOR SURFACE MOUNT PACKAGE LEADFRAME**

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(\* ) Notice: This patent is subject to a terminal disclaimer.

(\*\*) Term: **14 Years**

(21) Appl. No.: **29/172,801**

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(51) **LOC (7) Cl. .... 13-03**

(52) **U.S. Cl. .... D13/182**

(58) **Field of Search** ..... D13/182; 29/622,  
29/827; 174/52.2, 52.4; 206/713, 714, 715,  
716, 727, 728; 257/667, 668; 333/185;  
428/573

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

- 4,118,859 A 10/1978 Busler
- 4,234,666 A 11/1980 Gursky
- 4,298,883 A 11/1981 Komatsu et al.

- 4,633,582 A 1/1987 Ching et al.
- 4,809,054 A 2/1989 Waldner
- 4,818,960 A 4/1989 Satoh et al.
- 4,852,250 A 8/1989 Andrews
- 4,865,193 A 9/1989 Shimamoto et al.
- 5,115,299 A 5/1992 Wright
- 5,554,886 A 9/1996 Song
- 5,900,582 A 5/1999 Tomita et al.
- 6,016,918 A 1/2000 Ziberna
- D465,207 S 11/2002 Williams et al.

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(57) **CLAIM**

The ornamental design for a portion of a matrix for surface mount package leadframe, as shown and described.

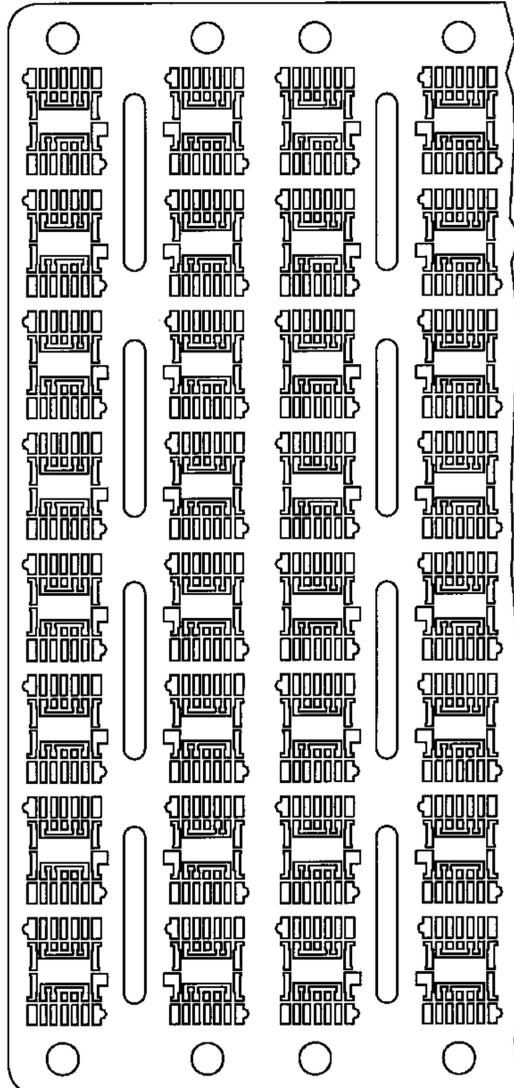
**DESCRIPTION**

FIG. 1 is a top plan view of a portion of a matrix incorporating a plurality of surface mount package leadframes showing my new design;

FIG. 2 is a top plan view of an enlarged fragment of the portion of a matrix for surface mount package leadframe; and,

FIG. 3 is a perspective view of a matrix incorporating a plurality of surface mount package leadframes showing my new design.

**1 Claim, 3 Drawing Sheets**



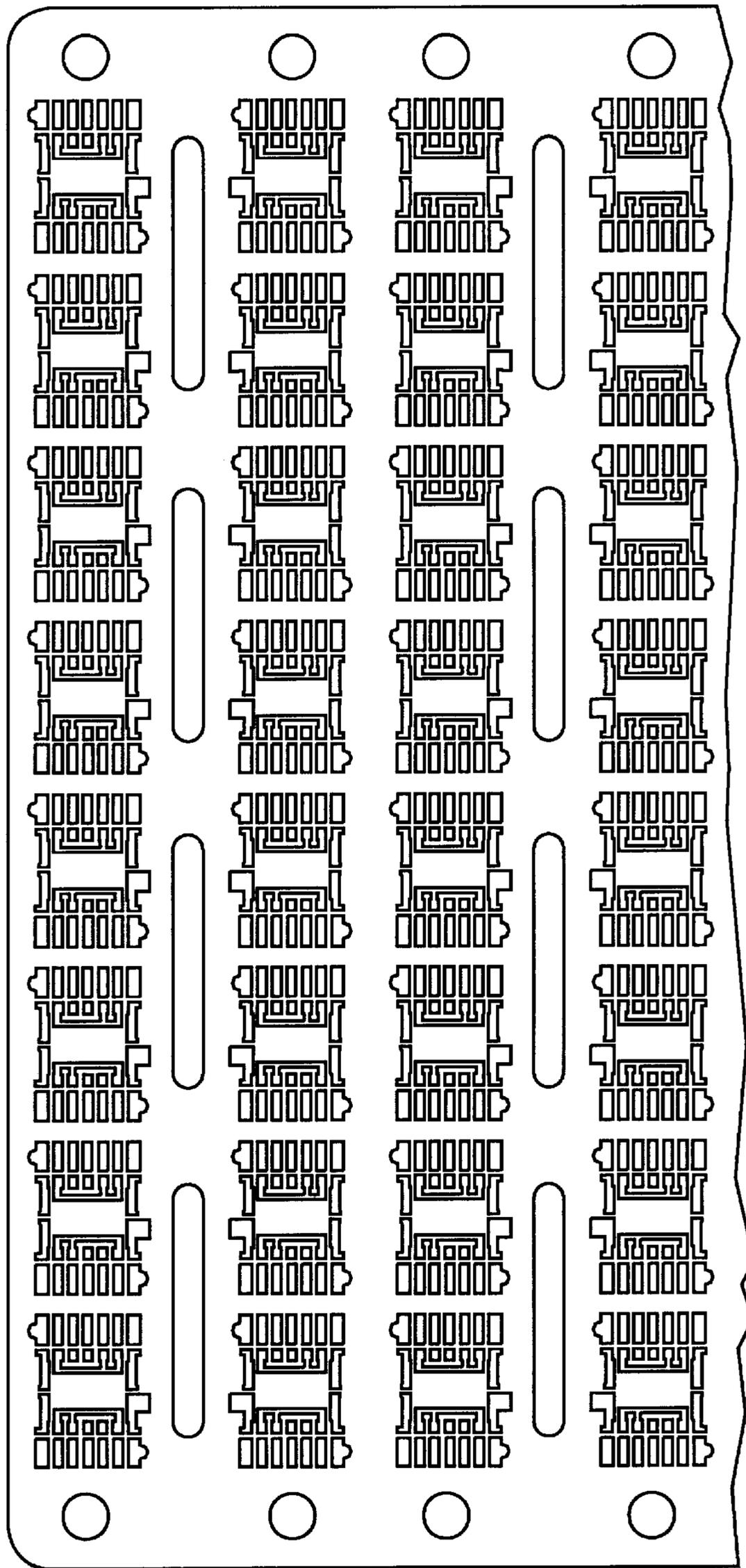


FIG. 1

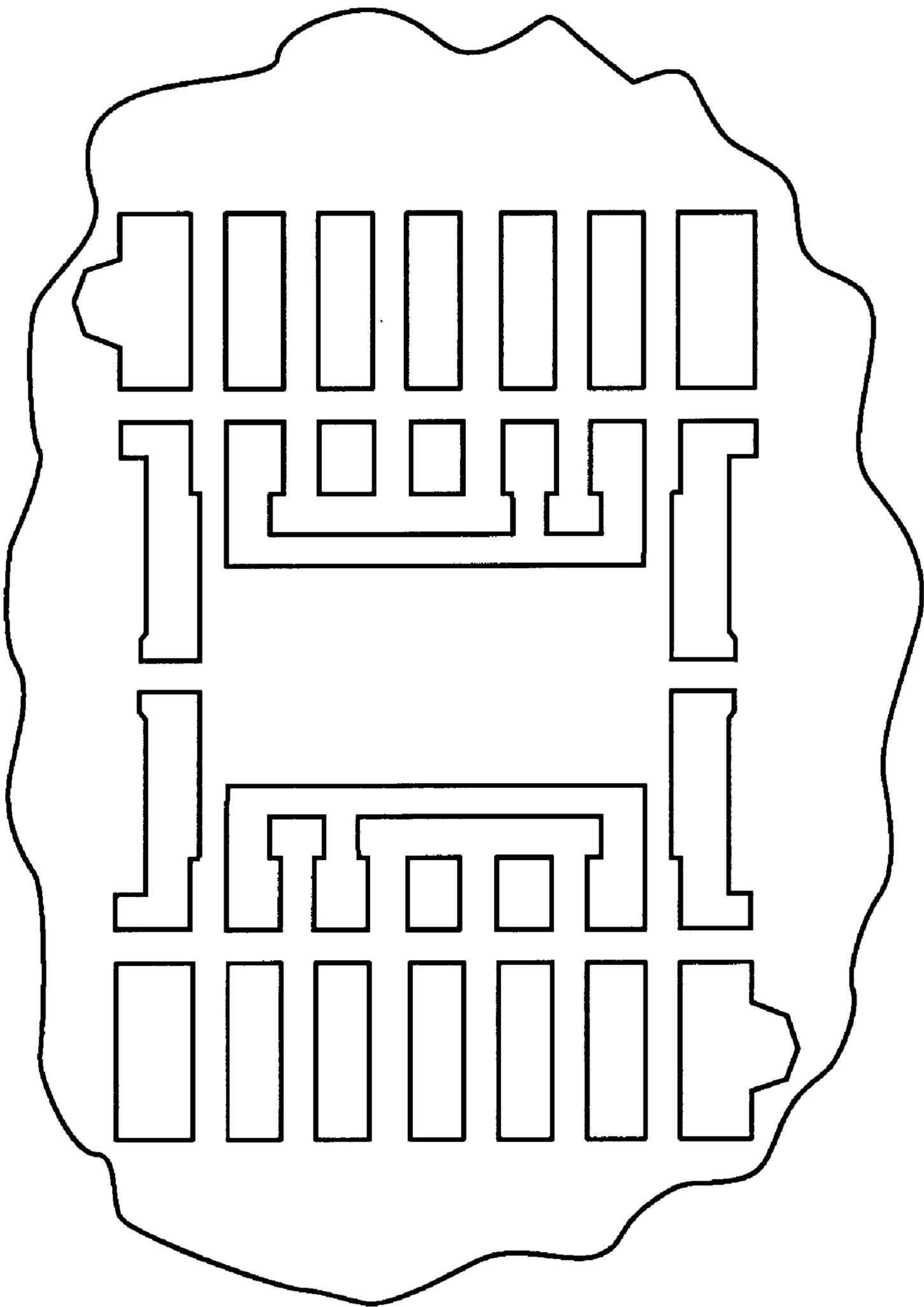


FIG. 2

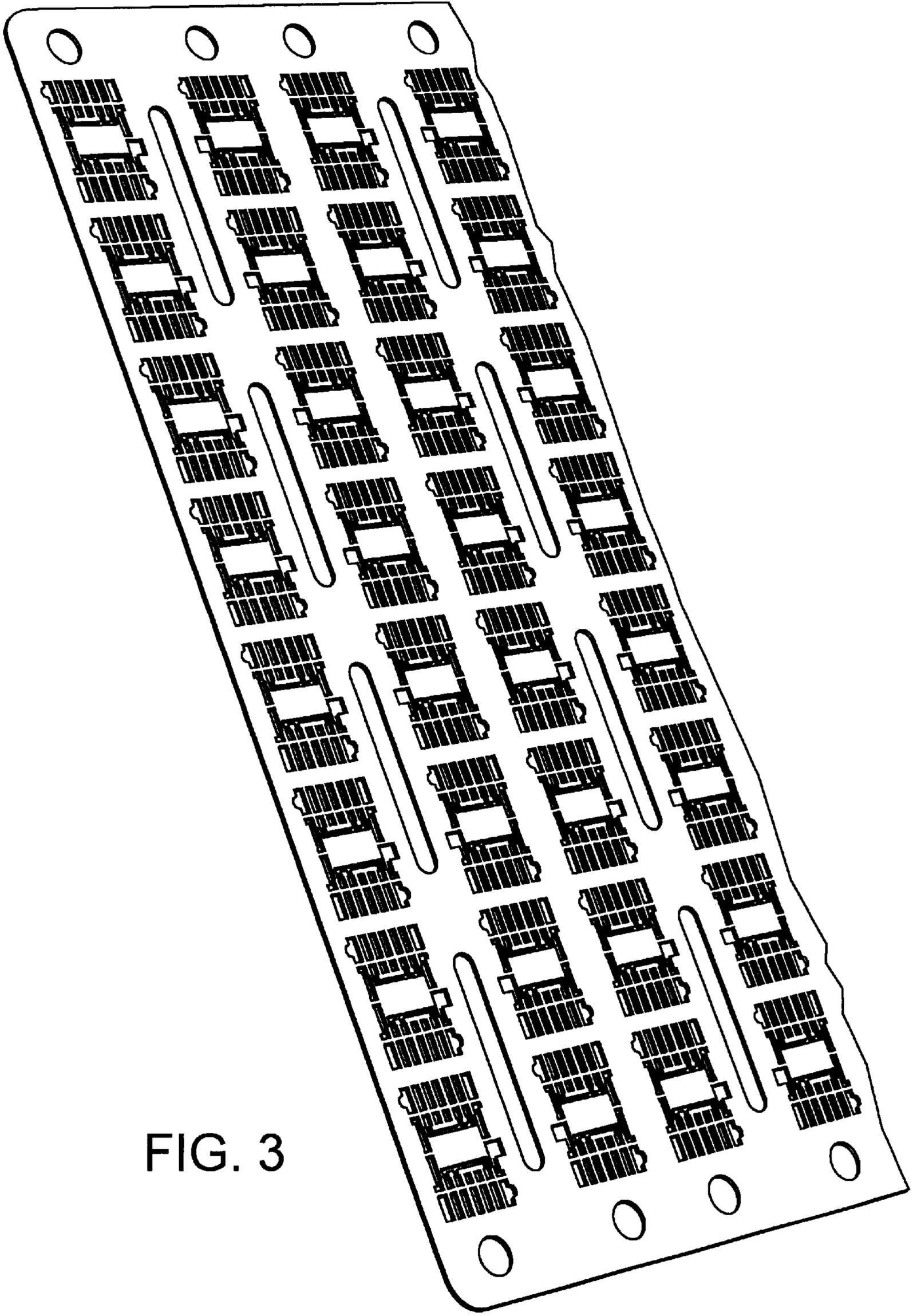


FIG. 3