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

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(54) **FLEXIBLE PRINTED CIRCUIT BOARD**

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(30) **Foreign Application Priority Data**

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Jan. 29, 2018	(KR)	30-2018-0004905
Jan. 29, 2018	(KR)	30-2018-0004906
Jan. 29, 2018	(KR)	30-2018-0004907
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(51) **LOC (12) Cl.** **13-03**

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

(58) **Field of Classification Search**

USPC D24/187, 168; D10/52, 81; D11/3; D13/182

CPC H05K 1/028; H05K 1/118; H05K 1/0221; H05K 1/0237; H05K 1/0242; H05K 1/025; H05K 1/0266; H05K 1/0271; H05K 1/0393; H05K 1/111; H05K 1/14; H05K 1/189; H05K 2201/09327; H05K 2201/09618; H05K 2201/09663; H05K 2201/09909;

(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

D326,716 S * 6/1992 Mortara D24/168
D343,130 S * 1/1994 Gambill D10/52

(Continued)

Primary Examiner — Nathaniel D. Buckner

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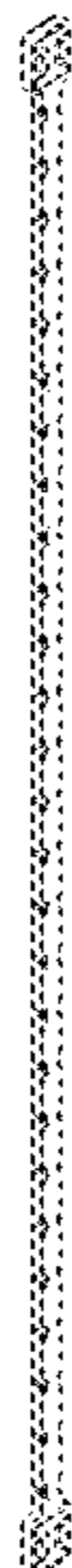
(57) **CLAIM**

The ornamental design for a flexible printed circuit board, as shown and described.

DESCRIPTION

1.1 is a front perspective view of a flexible printed circuit board showing our new design;
1.2 is a front elevation view thereof;
1.3 is a rear elevation view thereof;
1.4 is a left side elevation view thereof;
1.5 is a right side elevation view thereof;
1.6 is a top plan view thereof;
1.7 is a bottom plan view thereof;
1.8 is a rear perspective view thereof;
1.9 is an enlarged perspective view of a portion of **1.1**;
1.10 is a front elevation view thereof;
1.11 is a rear elevation view thereof; and
1.12 is a left side elevation view thereof.

(Continued)



The dot dash broken lines depict the boundary of the area of enlargement and form no part of the claimed design.

1 Claim, 12 Drawing Sheets

(58) **Field of Classification Search**

CPC H05K 2201/2009; H05K 2203/048; H05K 2203/082; H05K 3/28; H05K 3/363; A61B 2562/046; A61B 5/04001; A61B 5/04085; A61B 5/0531; A61B 5/4893

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D452,323 S * 12/2001 Mastrototaro D24/187
D469,540 S * 1/2003 Holker D24/187

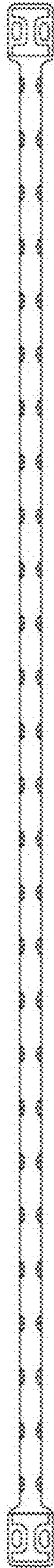
6,609,018 B2 * 8/2003 Cory A61B 5/04001
600/393
D691,904 S * 10/2013 Shimuta D10/81
D714,178 S * 9/2014 Sabbioni D11/3
D730,529 S * 5/2015 Perryman D24/187
D757,666 S * 5/2016 Yokoo D13/182
D758,596 S * 6/2016 Perryman D24/187
2015/0018055 A1 * 1/2015 Yosui H05K 1/02
455/575.1
2015/0042421 A1 * 2/2015 Kato H01P 3/085
333/238
2015/0068796 A1 * 3/2015 Jung H05K 1/0242
174/262
2016/0234944 A1 * 8/2016 Schmidt H05K 3/0097
2019/0230786 A1 * 7/2019 Kim H01P 3/085
333/238
2019/0230787 A1 * 7/2019 Jo H05K 1/02
455/575.1

* cited by examiner

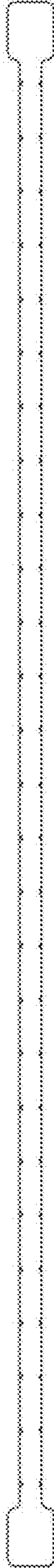
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1.2



1.3



1.4



1.5



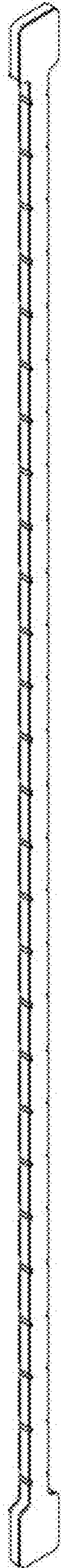
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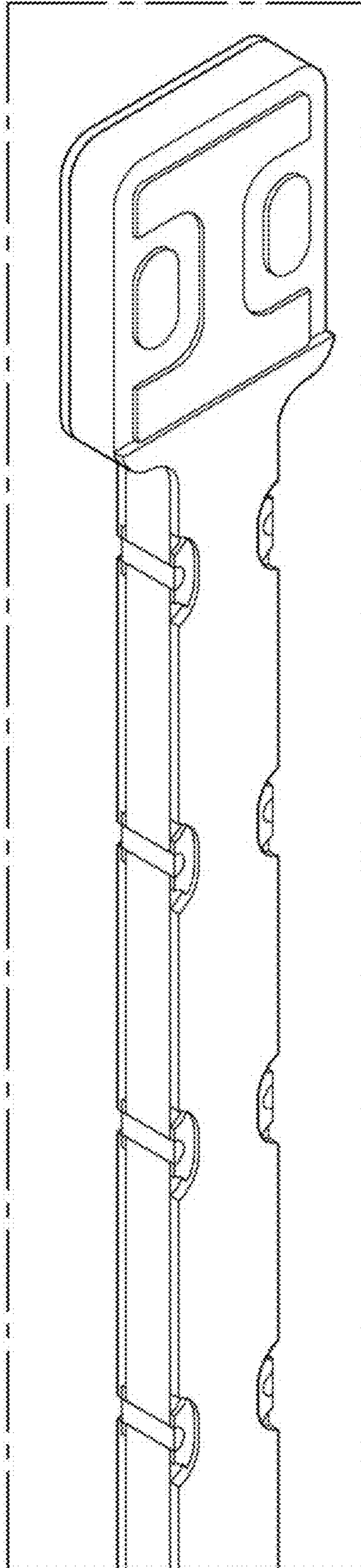
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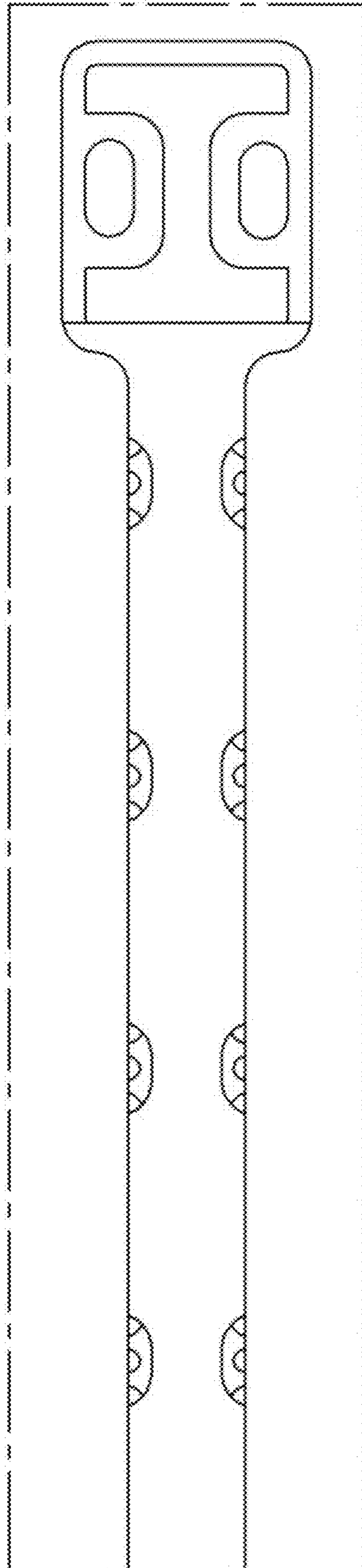
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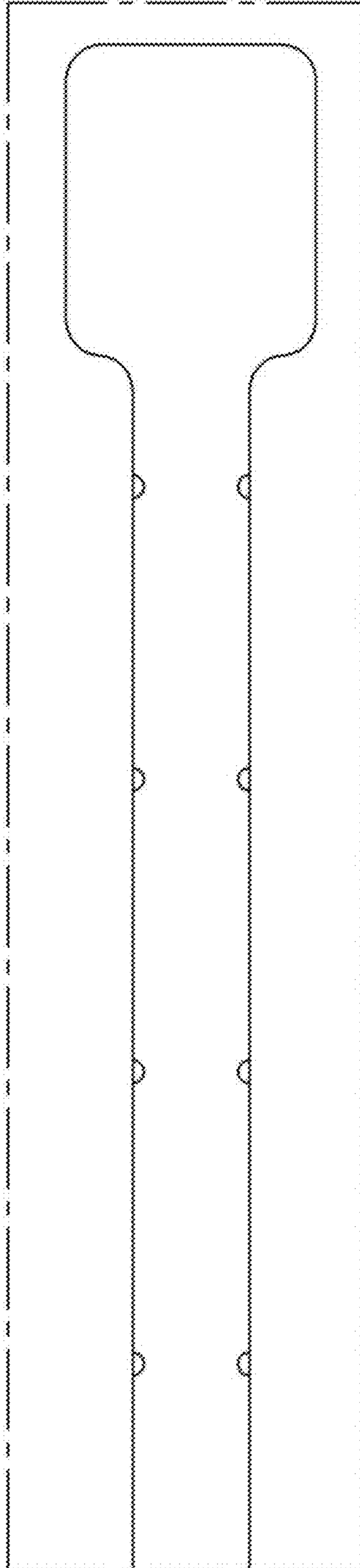
1.9



1.10



1.11



1.12

