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

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(54) **CONVERTIBLE KEYBOARD ASSEMBLY**

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**Matthew Sutter**, Columbus, OH (US)

(73) Assignee: **Design Enzyme LLC**, Boston, MA (US)

(\*\*) Term: **15 Years**

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(51) **LOC (14) Cl.** ..... **14-02**

(52) **U.S. Cl.**  
USPC ..... **D14/392**

(58) **Field of Classification Search**  
USPC ..... D14/331, 333, 334, 335, 338, 339, 340,  
D14/346, 347, 356, 383, 384, 387, 388,  
(Continued)

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

D607,451 S \* 1/2010 Wang ..... D14/392  
D728,569 S \* 5/2015 Lee ..... D14/392  
(Continued)

**OTHER PUBLICATIONS**

Razer Huntsman. Razer Inc., amazon.com (online) 15 pages. Posted Sep. 12, 2019. [Retrieved May 12, 2022] [https://www.amazon.com/dp/B07V25YPVW/ref=cm\\_sw\\_em\\_r\\_mt\\_dp\\_V4DWTD1NNBBBMBBAQRM0](https://www.amazon.com/dp/B07V25YPVW/ref=cm_sw_em_r_mt_dp_V4DWTD1NNBBBMBBAQRM0) (Year: 2019).\*

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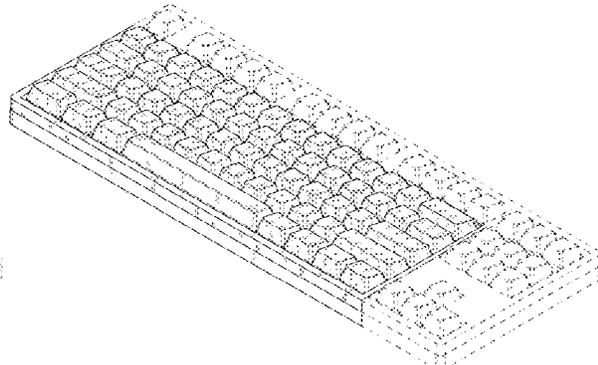
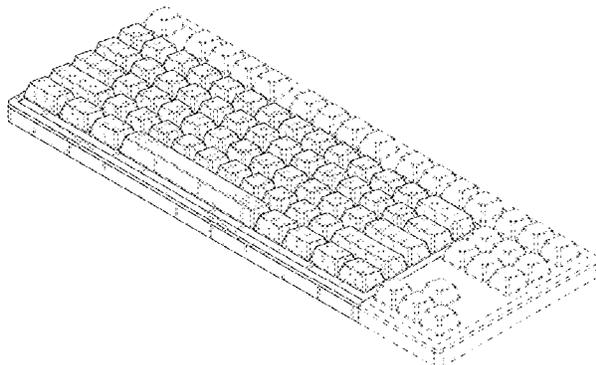
(57) **CLAIM**

The ornamental design for a convertible keyboard assembly, as shown and described.

**DESCRIPTION**

FIG. 1 is an isometric view of a convertible keyboard assembly in a first modular position of use;  
FIG. 2 is a front elevation view of the convertible keyboard of FIG. 1;  
FIG. 3 is a rear elevation view of the convertible keyboard of FIGS. 1 and 2;  
FIG. 4 is a first side elevation view of the convertible keyboard of FIGS. 1-3;  
FIG. 5 is a second side elevation view of the convertible keyboard of FIGS. 1-4;  
FIG. 6 is a top plan view of the convertible keyboard of FIGS. 1-5;  
FIG. 7 is a bottom plan view of the convertible keyboard of FIGS. 1-6;  
FIG. 8 is an isometric view of the convertible keyboard in a second modular position of use;  
FIG. 9 is a front elevation view of the convertible keyboard of FIG. 8;  
FIG. 10 is a rear elevation view of the convertible keyboard of FIGS. 8 and 9;  
FIG. 11 is a first side elevation view of the convertible keyboard of FIGS. 8-10;  
FIG. 12 is a second side elevation view of the convertible keyboard of FIGS. 8-11;  
FIG. 13 is a top plan view of the convertible keyboard of FIGS. 8-12; and,  
FIG. 14 is a bottom plan view of the convertible keyboard of FIGS. 8-13.  
The evenly dashed broken lines in the figures depict portions of the display device that forms no part of the claimed design.  
The dot-dash broken lines in the figures define the boundaries of the claimed design and form no part thereof.

**1 Claim, 12 Drawing Sheets**



(58) **Field of Classification Search**

USPC ..... D14/389, 390, 391, 392, 393, 394, 395,  
D14/396, 397, 398, 399, 400, 401, 407,  
D14/416, 417, 432, 454, 455, 456, 457,  
D14/460, 461; D18/1, 2, 4.2, 12, 12.2;  
D21/324, 333  
CPC ..... G06F 3/02; G06F 3/0219; G06F 3/0231;  
G06F 3/0202; G06F 3/0213; G06F  
3/0238; G06F 3/03546; G06F 3/03549;  
G06F 3/0205; B41J 5/10; B41J 5/12;  
B41J 5/107; B41J 5/14; B41J 5/17; B41J  
7/34

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D830,360 S \* 10/2018 Jin ..... D14/392  
D882,571 S \* 4/2020 Tong ..... D14/392  
2010/0165559 A1\* 7/2010 Dai ..... G06F 3/0219  
361/679.08  
2011/0115651 A1\* 5/2011 Zhou ..... H03K 17/9618  
341/22  
2013/0222995 A1\* 8/2013 Wang ..... G06F 1/1667  
361/679.12  
2020/0076432 A1\* 3/2020 Lee ..... G06F 3/023

\* cited by examiner

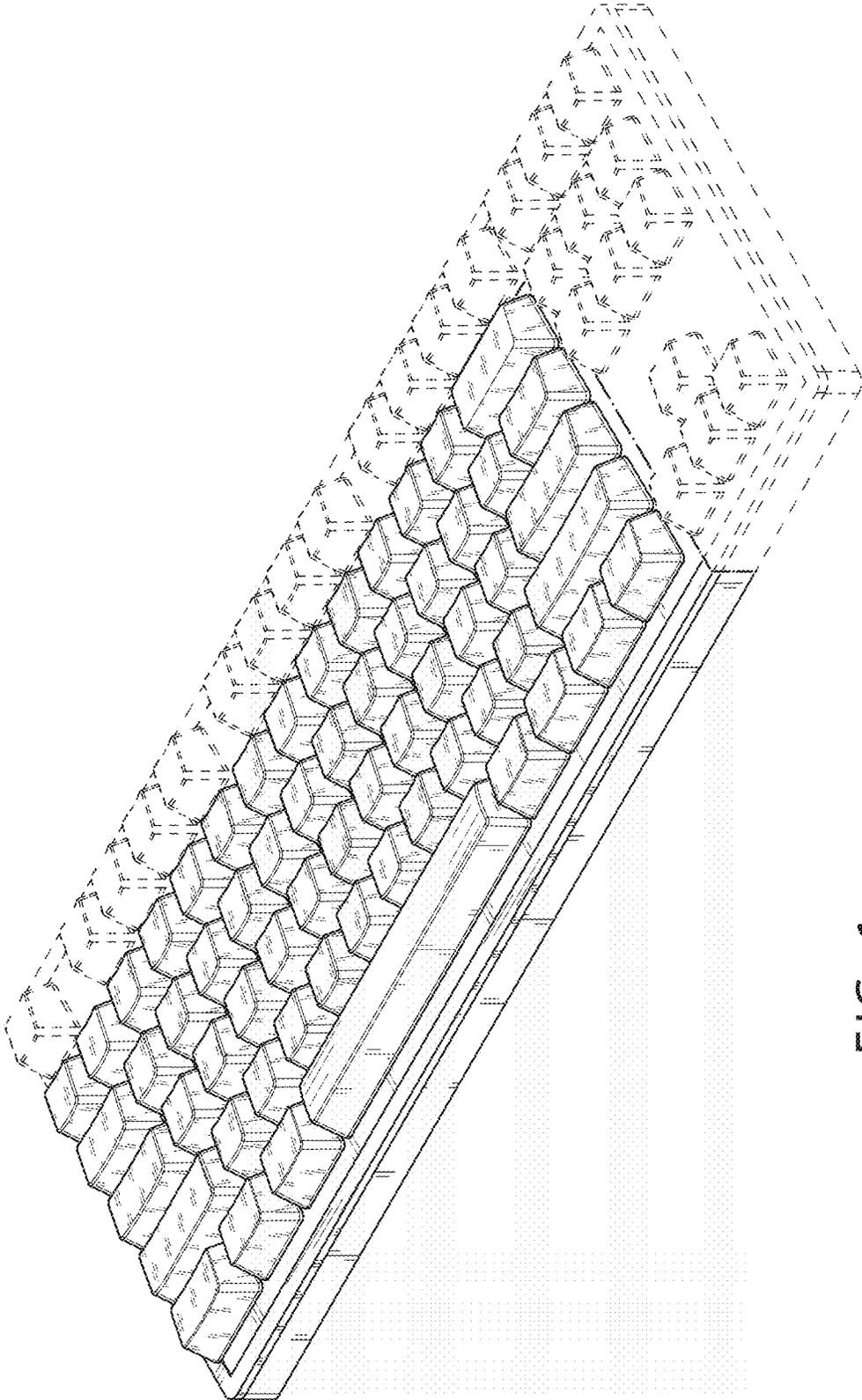


FIG. 1

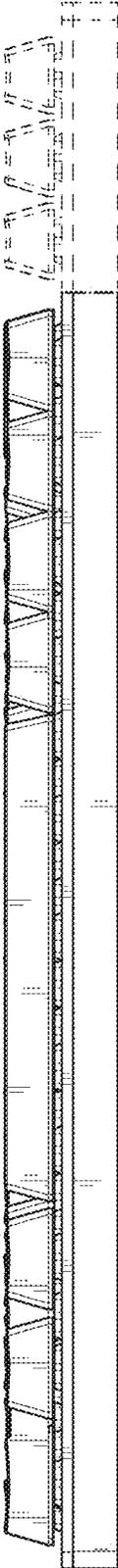


FIG. 2



FIG. 3



FIG. 4

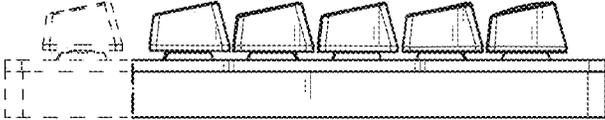


FIG. 5



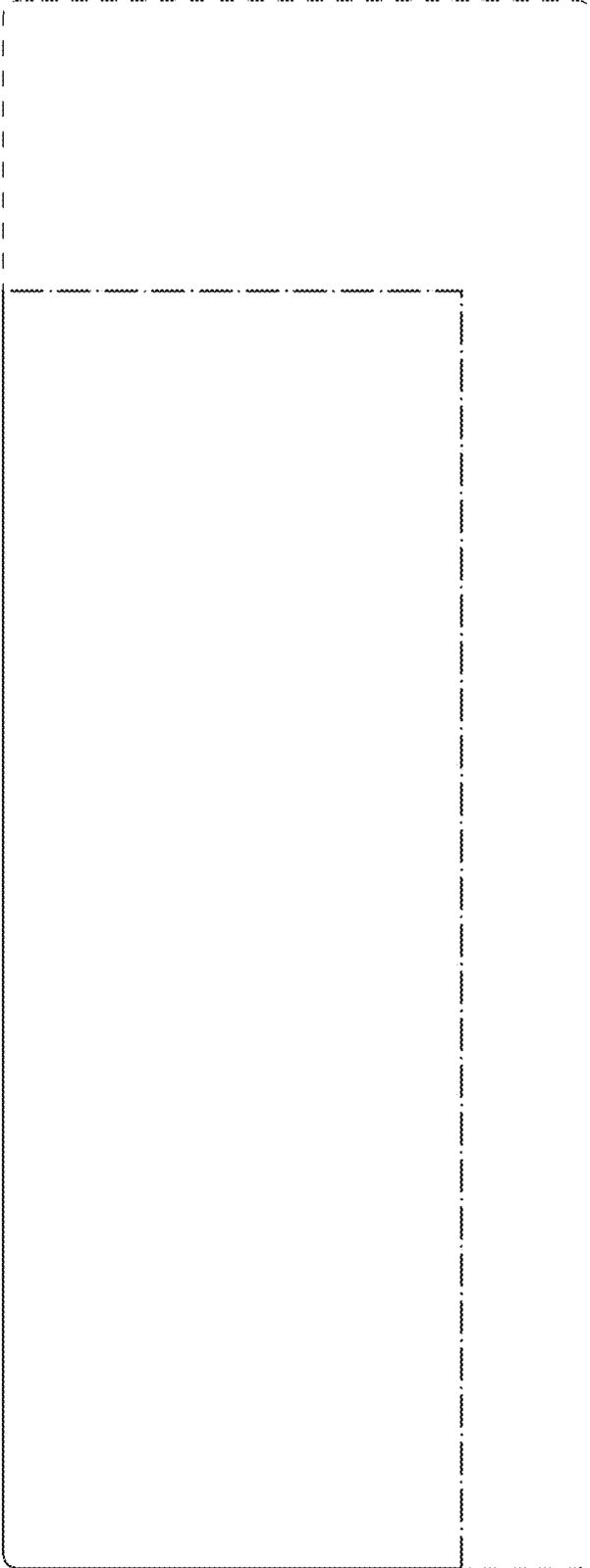


FIG. 7

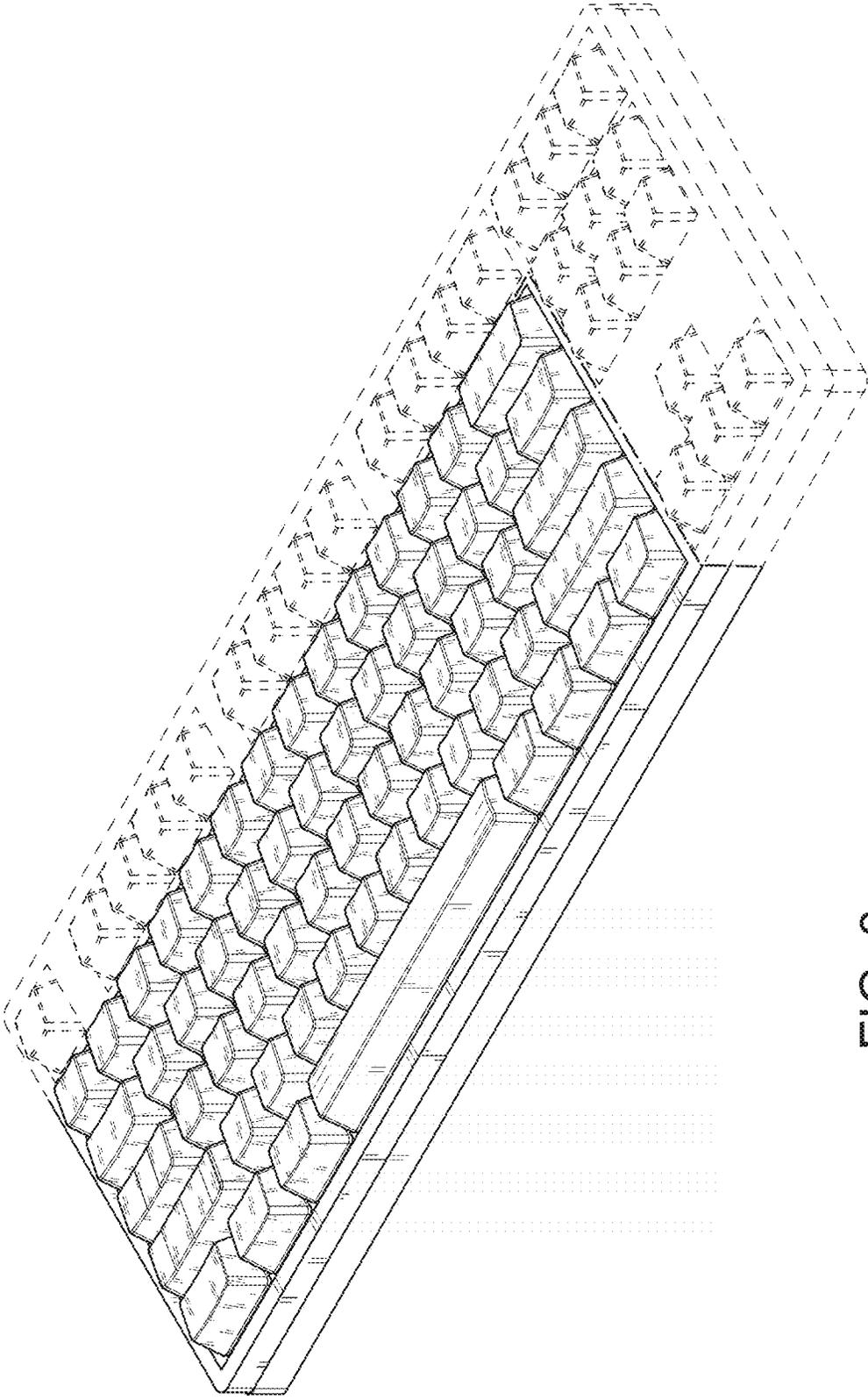


FIG. 8

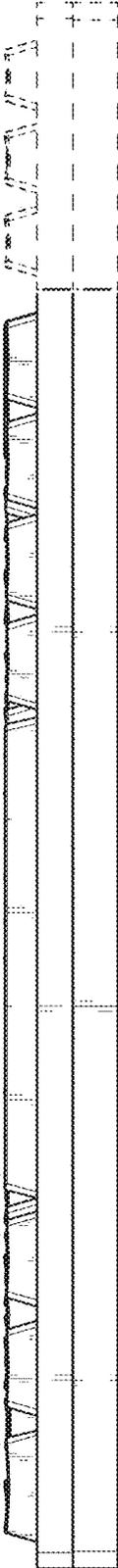


FIG. 9

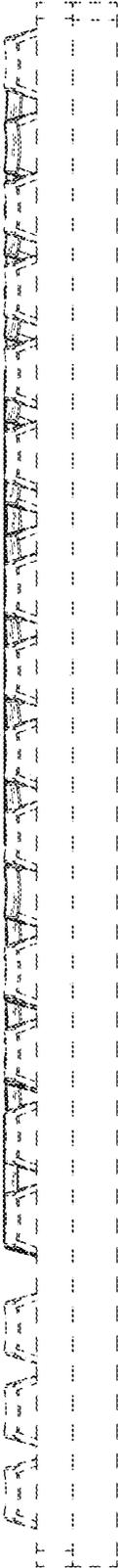


FIG. 10



FIG. 11

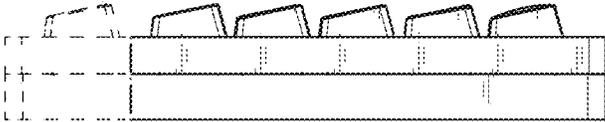


FIG. 12

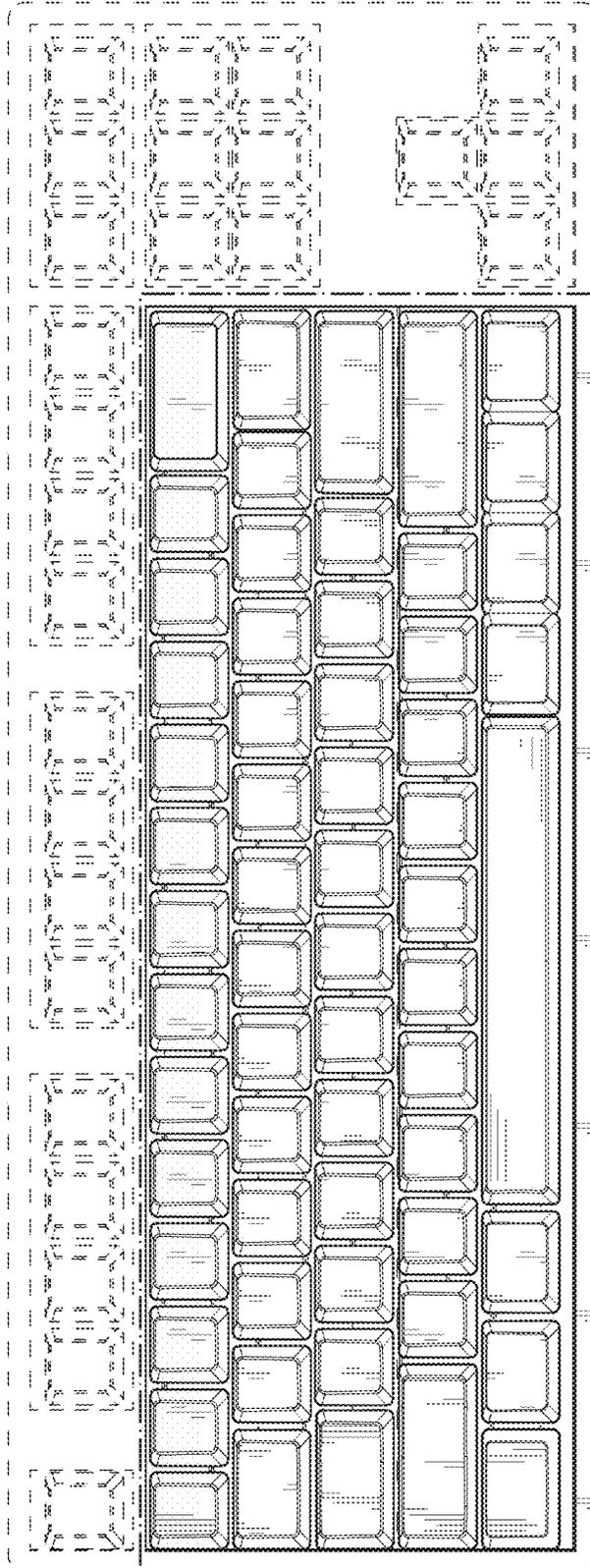


FIG. 13

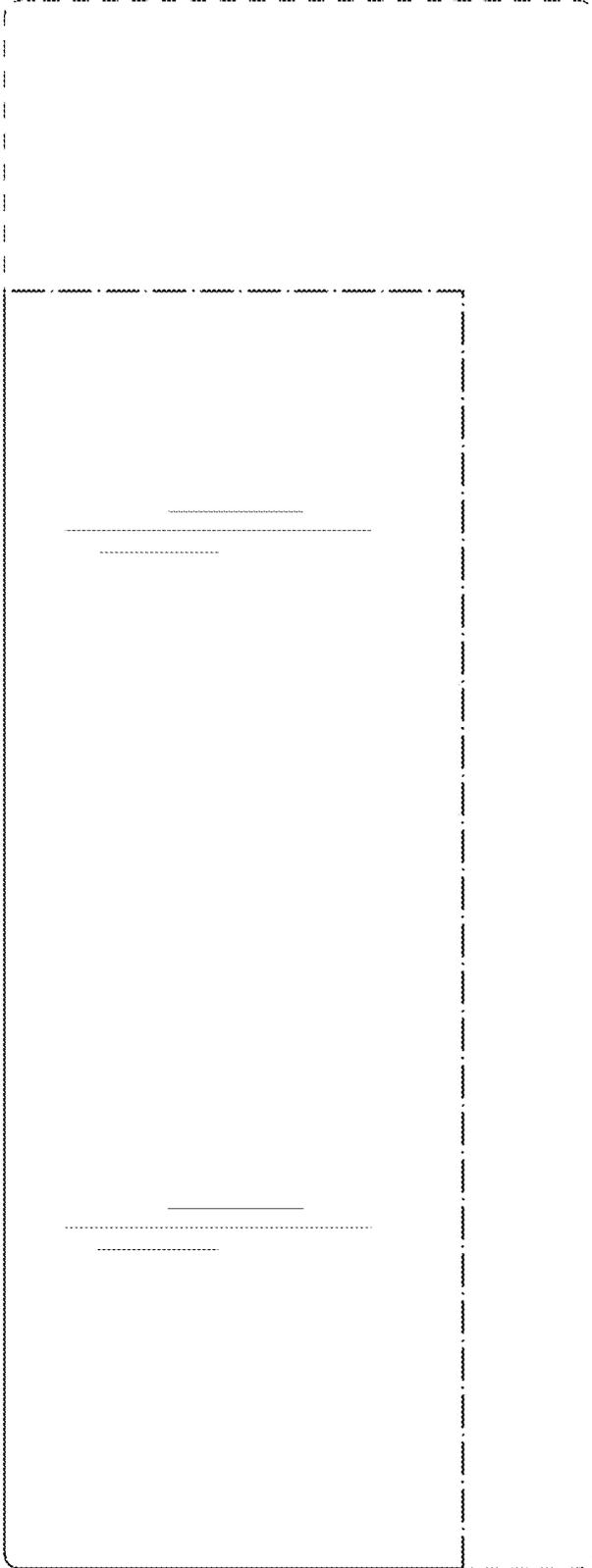


FIG. 14