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(12) **United States Design Patent** (10) **Patent No.:** **US D868,700 S**
Huang et al. (45) **Date of Patent:** **** Dec. 3, 2019**

(54) **ALTITUDE INCREASING CONNECTOR**

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

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(51) **LOC (12) Cl.** **13-03**

(52) **U.S. Cl.**
USPC **D13/147**

(58) **Field of Classification Search**
USPC D13/118, 120, 123, 133, 145-147, 151, D13/153, 154, 173, 184, 199
CPC ... H01R 1/18; H01R 4/24; H01R 9/09; H01R 12/00; H01R 12/52; H01R 12/57; H01R 13/115; H01R 24/00; H01R 43/04; H01R 43/20
See application file for complete search history.

(56) **References Cited**
U.S. PATENT DOCUMENTS

5,535,513 A * 7/1996 Frantz H01R 43/20
174/88 B

5,709,573 A * 1/1998 McClure H01R 12/716
439/857

5,904,580 A * 5/1999 Kozel H01R 12/52
439/66

D562,241 S * 2/2008 Hsu D13/133

D584,237 S * 1/2009 Zhu D13/147

D659,645 S * 5/2012 Kajiura D13/154
D659,646 S * 5/2012 Kajiura H01R 12/77
D13/154

D708,580 S * 7/2014 McCartin D13/147

2016/0315403 A1 * 10/2016 Xiao H01R 12/707

2018/0151967 A1 * 5/2018 Chen H01R 4/02

2018/0261935 A1 * 9/2018 Huang H01R 13/415

2019/0052002 A1 * 2/2019 Hasegawa H01R 12/57

* cited by examiner

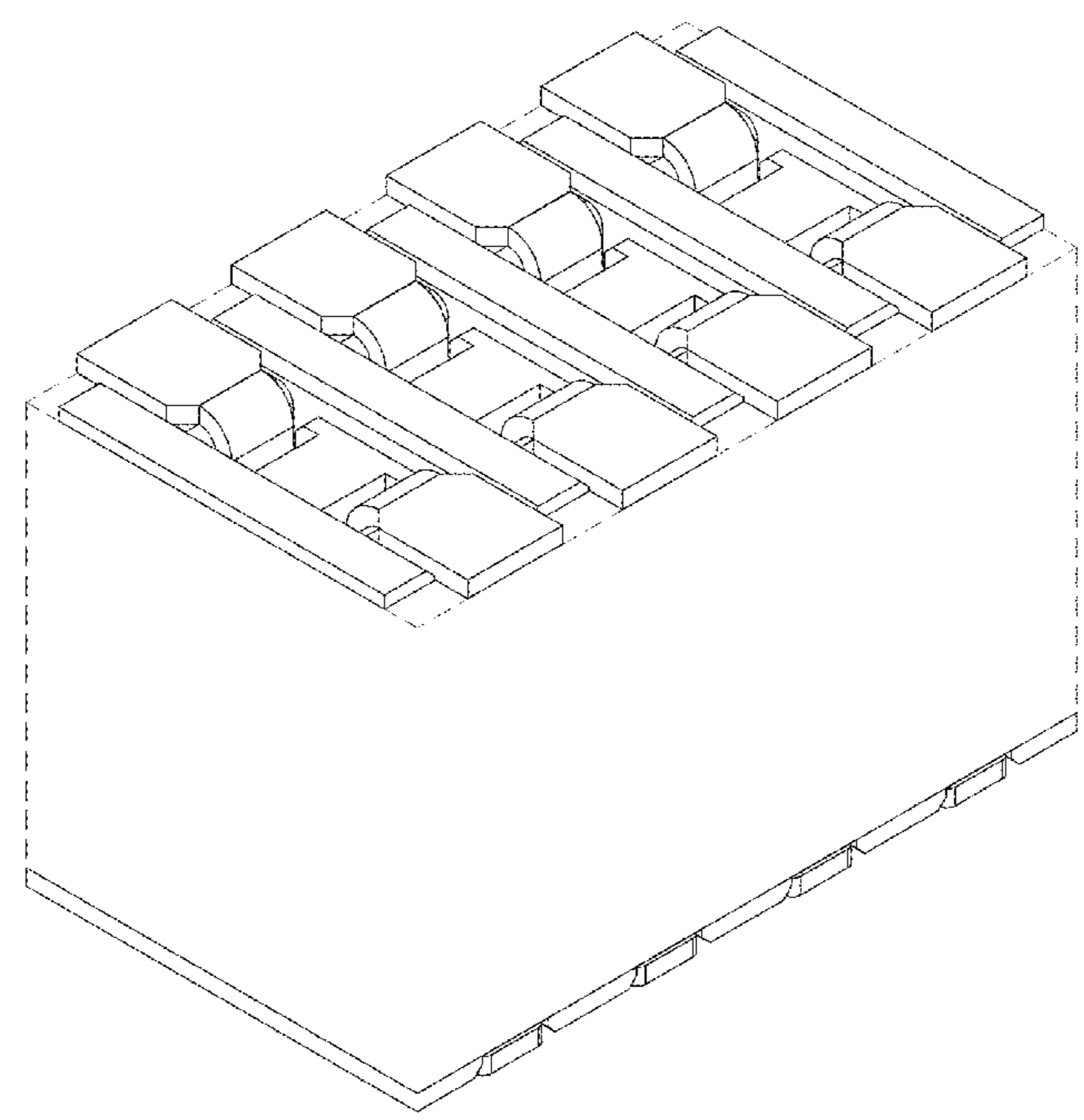
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(57) **CLAIM**
 The ornamental design for an altitude increasing connector, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of an altitude increasing connector showing the new design;
 FIG. 2 is a front view of an altitude increasing connector showing the new design;
 FIG. 3 is a rear view of an altitude increasing connector showing the new design;
 FIG. 4 is a left side elevational view of an altitude increasing connector showing the new design;
 FIG. 5 is a right side elevational view of an altitude increasing connector showing the new design;
 FIG. 6 is a top view of an altitude increasing connector showing the new design; and,
 FIG. 7 is a bottom view of an altitude increasing connector showing the new design.
 The broken lines in the drawing depict environmental subject matter only and form no part of the claimed design.

1 Claim, 7 Drawing Sheets



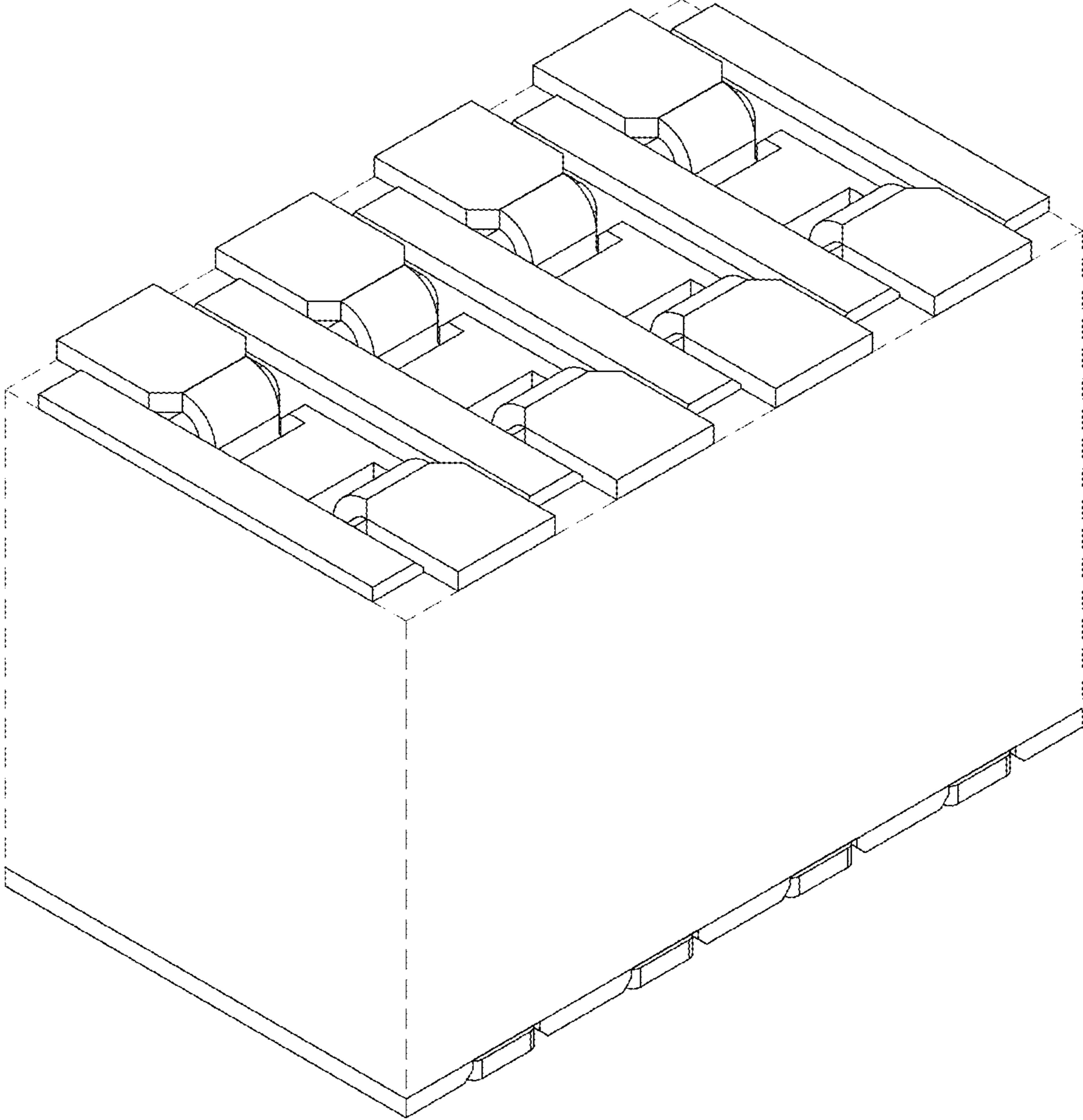


Fig. 1

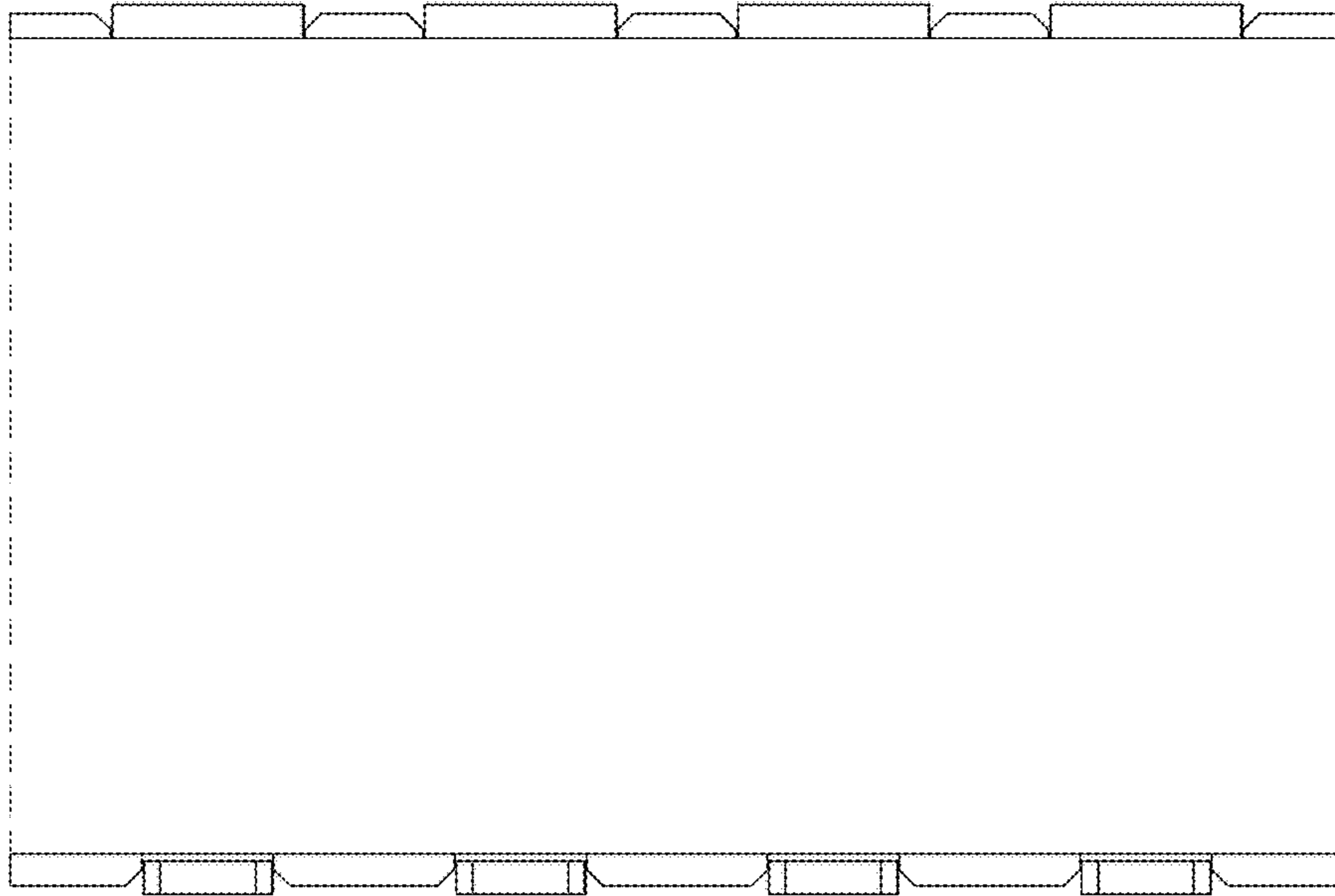


Fig. 2

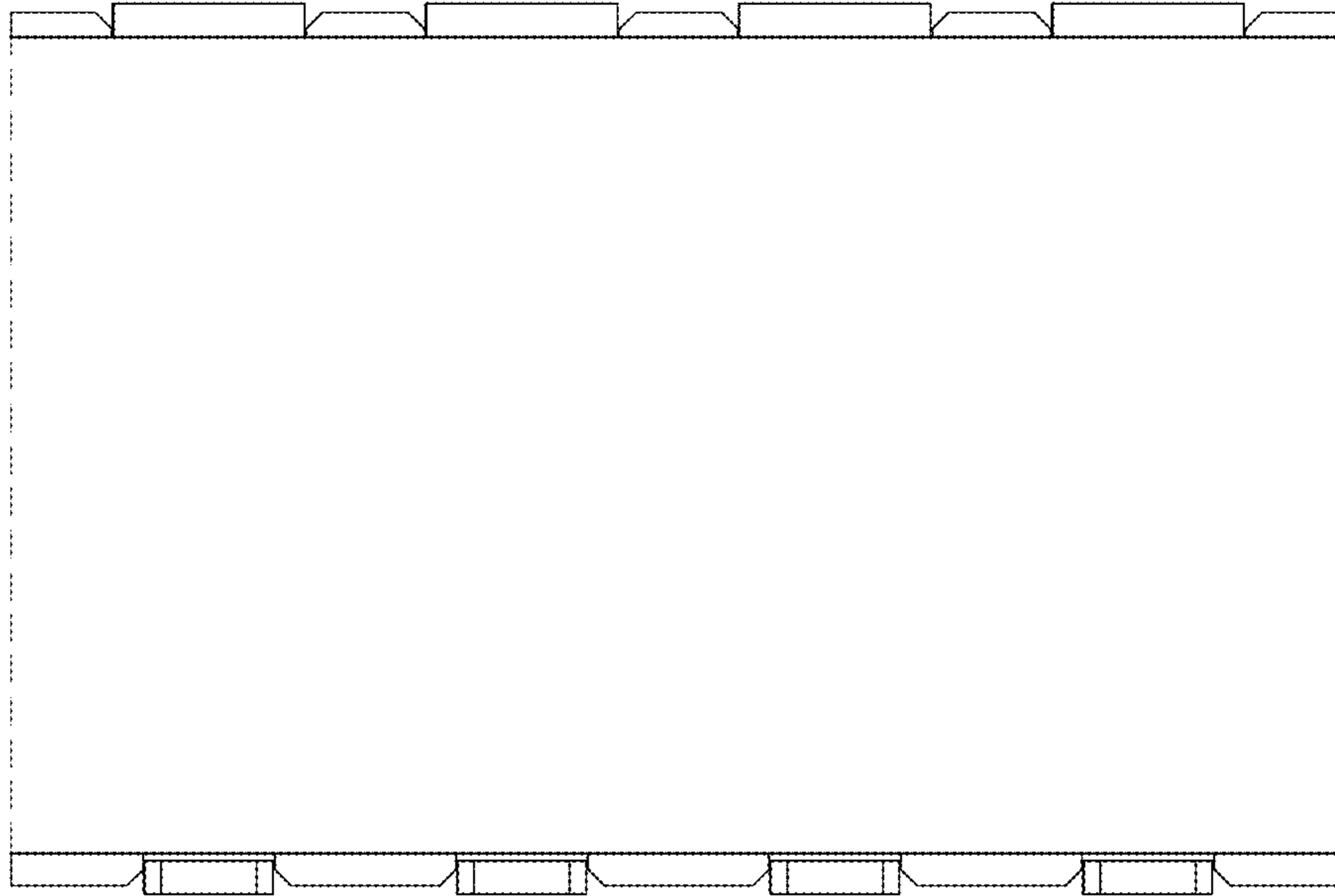


Fig. 3



Fig. 4



Fig. 5

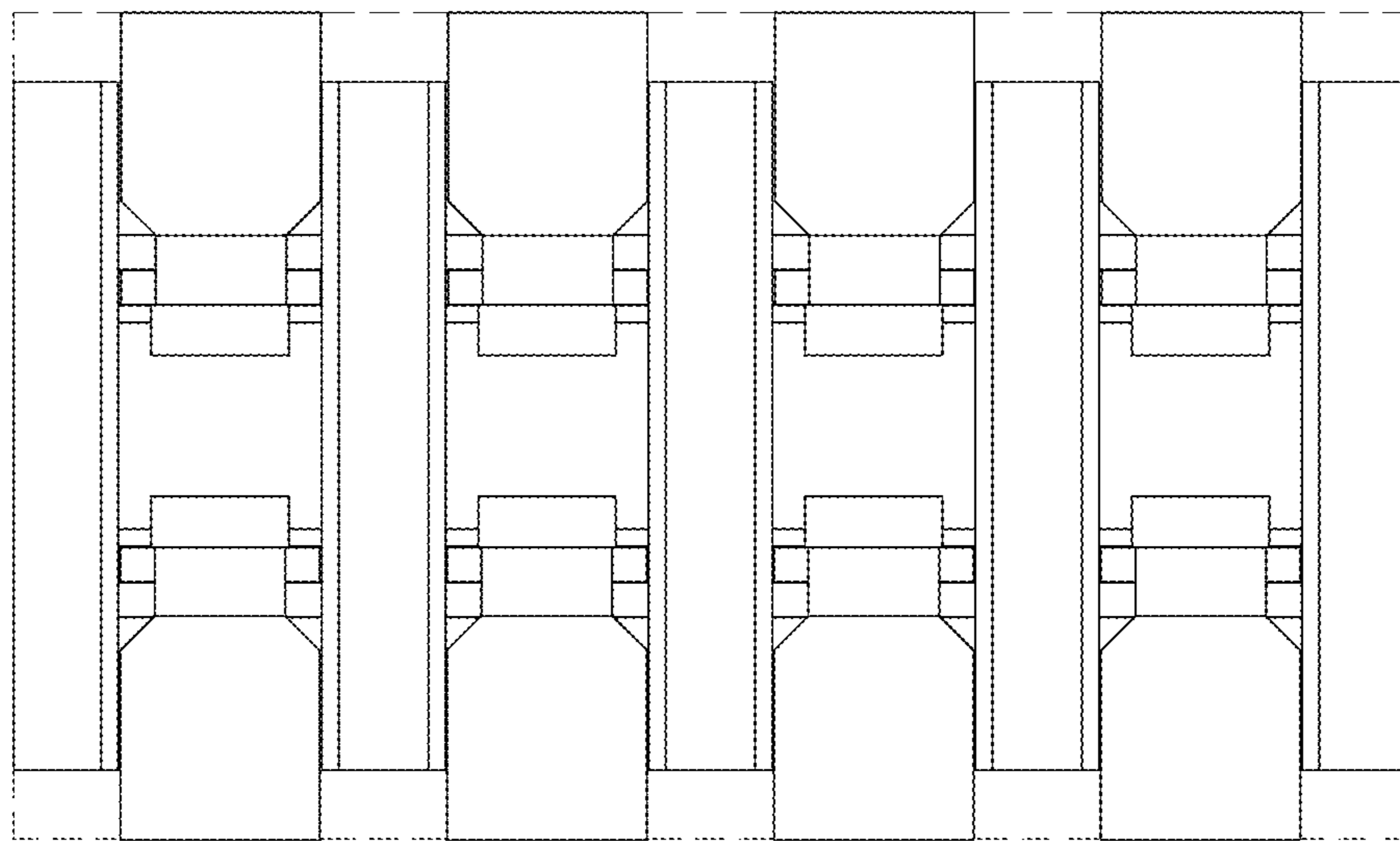


Fig. 6

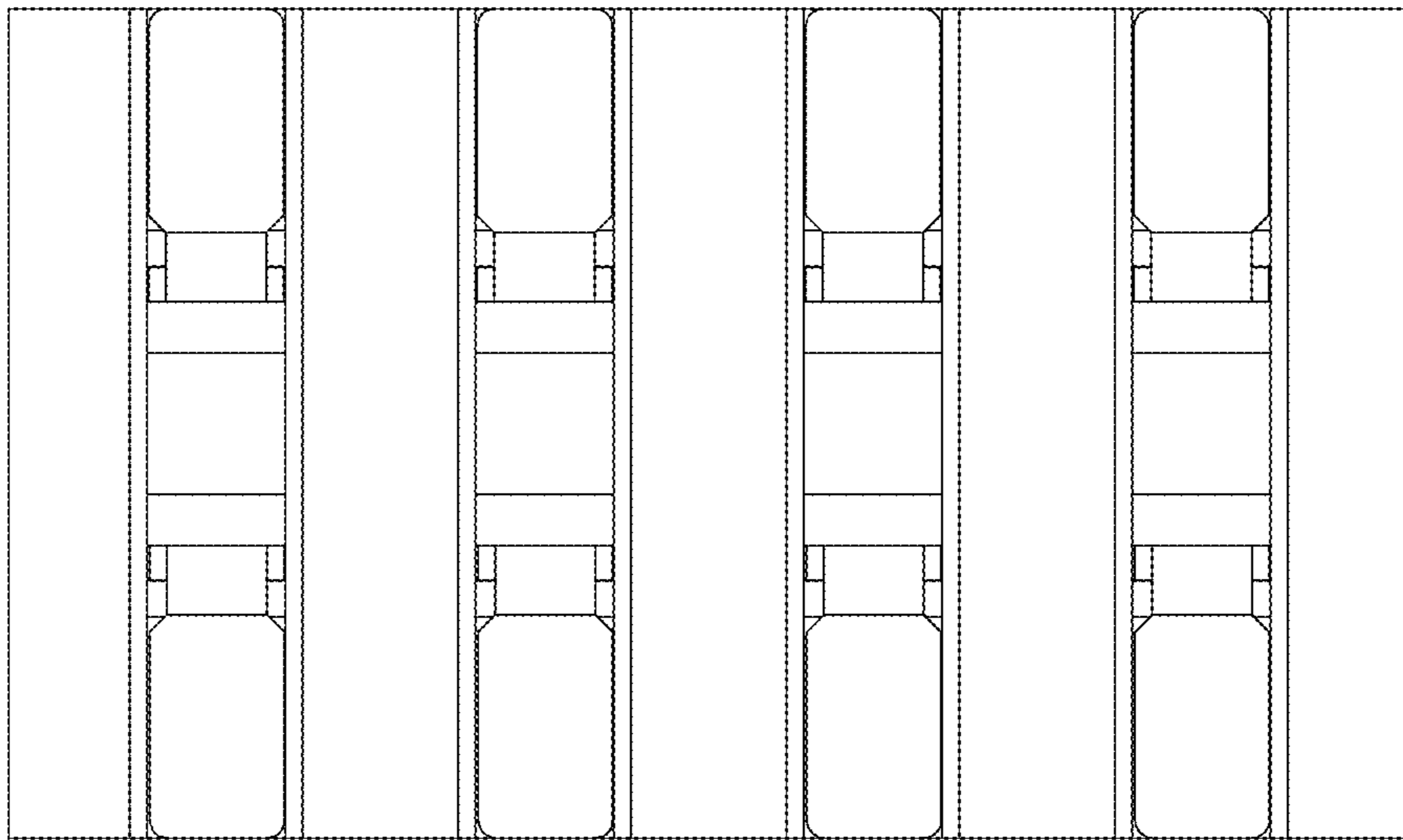


Fig. 7