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(12) **United States Design Patent**
Ishida

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(54) **ELECTRICAL CONNECTOR**

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(73) Assignee: **SMK Corporation**, Tokyo (JP)

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

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(30) **Foreign Application Priority Data**

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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, 146, 147, 154,
D13/184, 199; D14/240, 242, 432-435,
D14/435.1, 436-438; D9/456
CPC H01R 12/716; H01R 13/426
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D695,742 S *	12/2013	Yang	.....	D14/432
D696,651 S *	12/2013	Ohashi	.....	D14/240
D696,652 S *	12/2013	Ohashi	.....	D14/240
D719,919 S *	12/2014	Ashibu	.....	D13/147
D719,920 S *	12/2014	Choi	.....	D13/147
D719,921 S *	12/2014	Choi	.....	D13/147
D720,699 S *	1/2015	Watanabe	.....	D13/147
D721,040 S *	1/2015	Watanabe	.....	D13/147
D722,564 S *	2/2015	Yoshida	.....	D13/147
D733,058 S *	6/2015	Miyazaki	.....	D13/147

D742,833 S *	11/2015	Ashibu	.....	D13/147
D742,834 S *	11/2015	Kobuchi	.....	D13/147
D743,344 S *	11/2015	Kobuchi	.....	D13/147
D743,345 S *	11/2015	Kobuchi	.....	D13/147
D767,499 S *	9/2016	Goto	.....	D13/147
D774,463 S *	12/2016	Omodachi	.....	D13/147
D774,464 S *	12/2016	Takenaga	.....	D13/147
9,825,386 B2 *	11/2017	Lee	.....	H01R 12/73
D804,421 S *	12/2017	Sasaki	.....	D13/147
D839,832 S *	2/2019	Yanase	.....	D13/147

(Continued)

OTHER PUBLICATIONS

Japan Bullet. Smk To Release Connectors For High—Voltage Solar Plants. Mar. 21, 2014. <https://www.japanbullet.com/technology/smk-to-release-connectors-for-high-voltage-solar-plants> (Year: 2014).*

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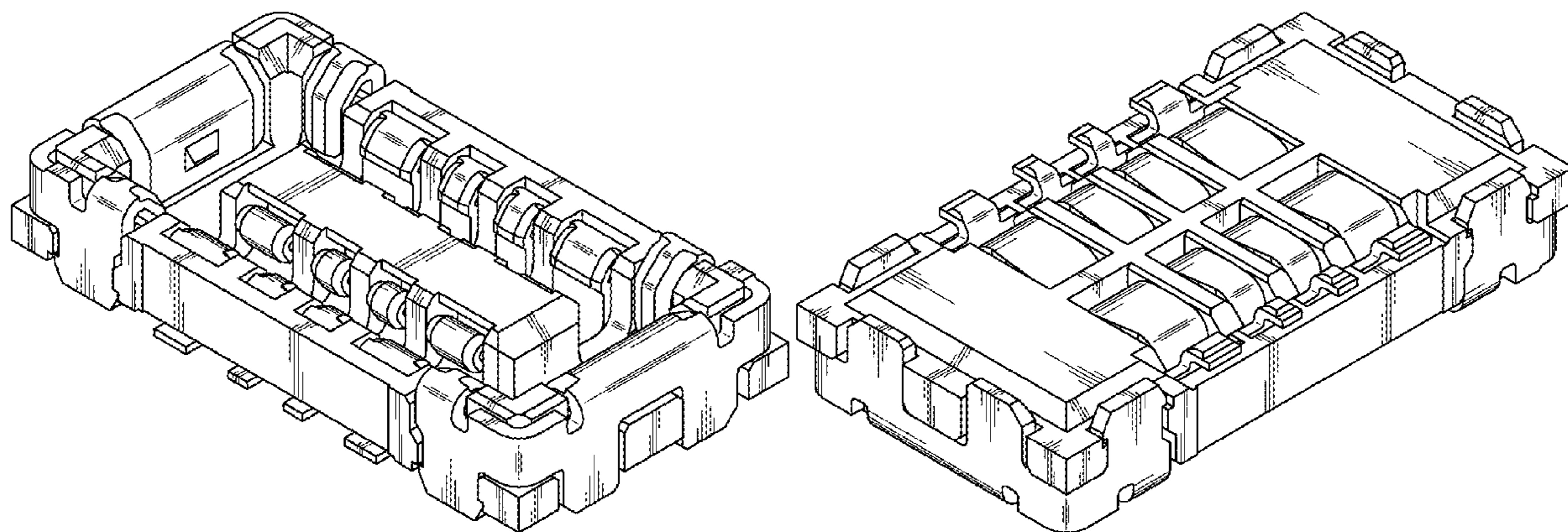
(57) **CLAIM**

The ornamental design for an electrical connector, as shown and described.

DESCRIPTION

FIG. 1 is a front elevation view of an electrical connector, showing our new design;
FIG. 2 is a top plan view thereof;
FIG. 3 is a bottom plan view thereof;
FIG. 4 is a 1st side view thereof;
FIG. 5 is a 2nd side view thereof;
FIG. 6 is a rear elevation view thereof;
FIG. 7 is a 1st perspective view thereof; and,
FIG. 8 is a 2nd perspective view thereof.
The shading in the figures shows contour of surface, and not surface ornamentation.

1 Claim, 8 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D870,674 S * 12/2019 Ashibu D13/147
2020/0044374 A1 * 2/2020 Ishida H01R 12/721

OTHER PUBLICATIONS

Connector Supplier. Battery Connectors Evolve to Stay in Charge.
Apr. 17, 2018 <https://www.connectorsupplier.com/battery-connectors-evolve-to-stay-in-charge/> (Year: 2018).*

* cited by examiner

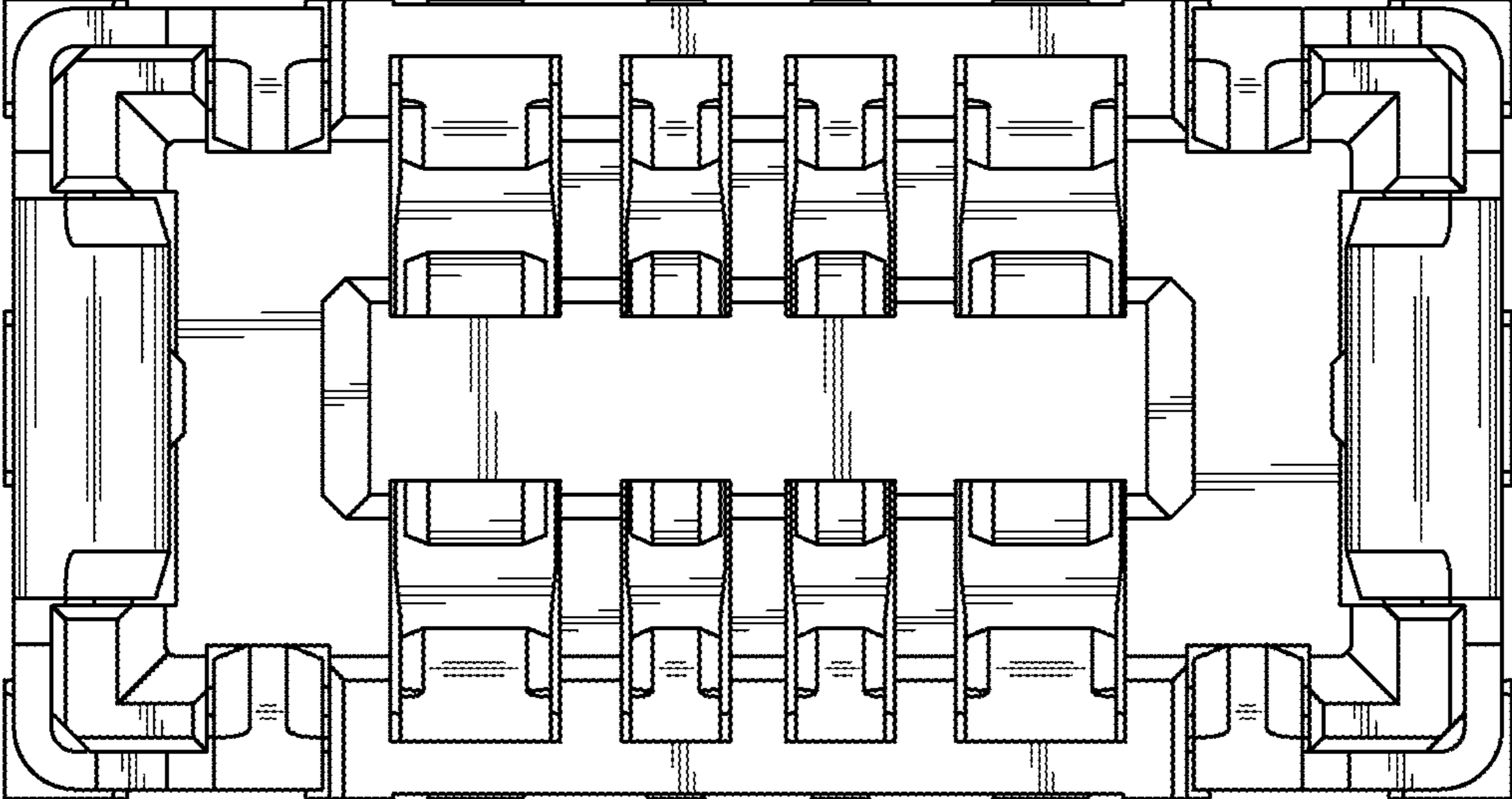


Fig. 1

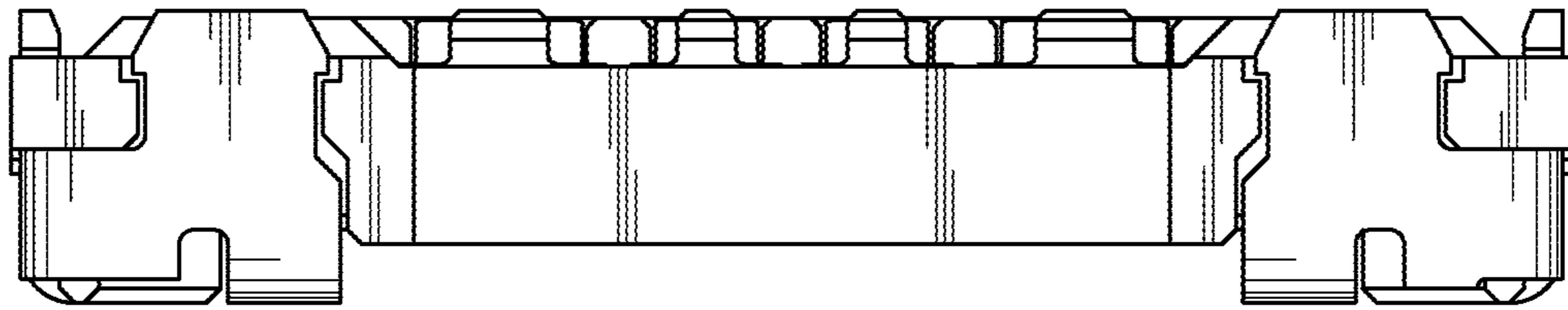


Fig.2

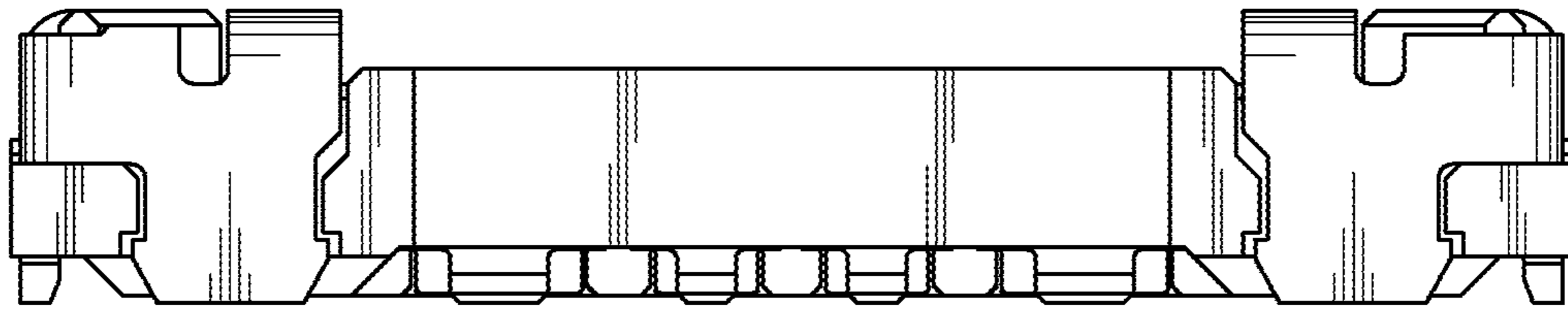


Fig.3

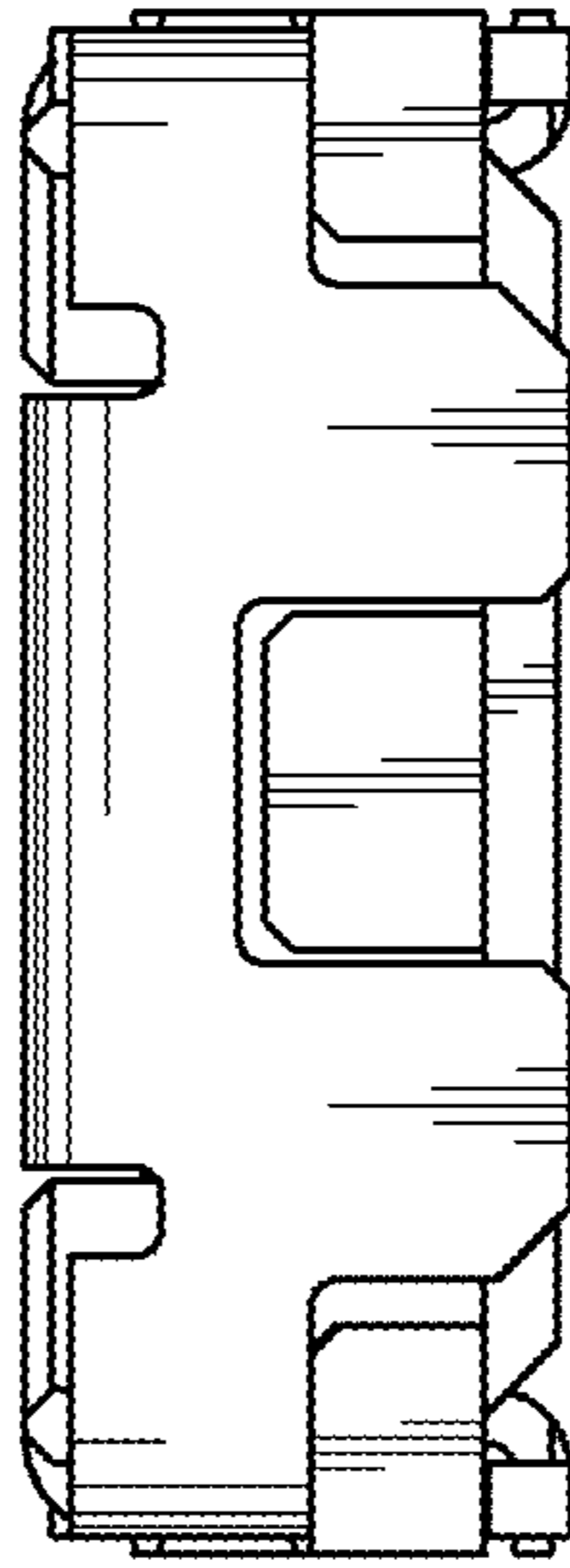


Fig.4

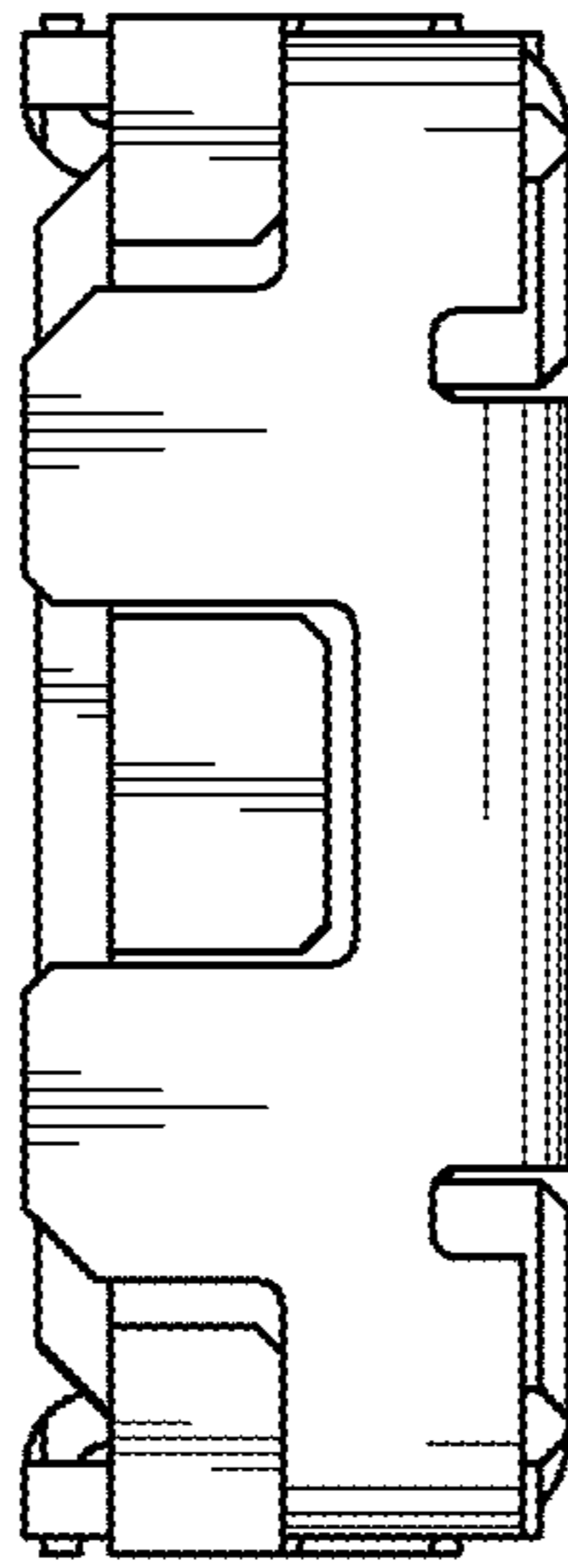


Fig.5

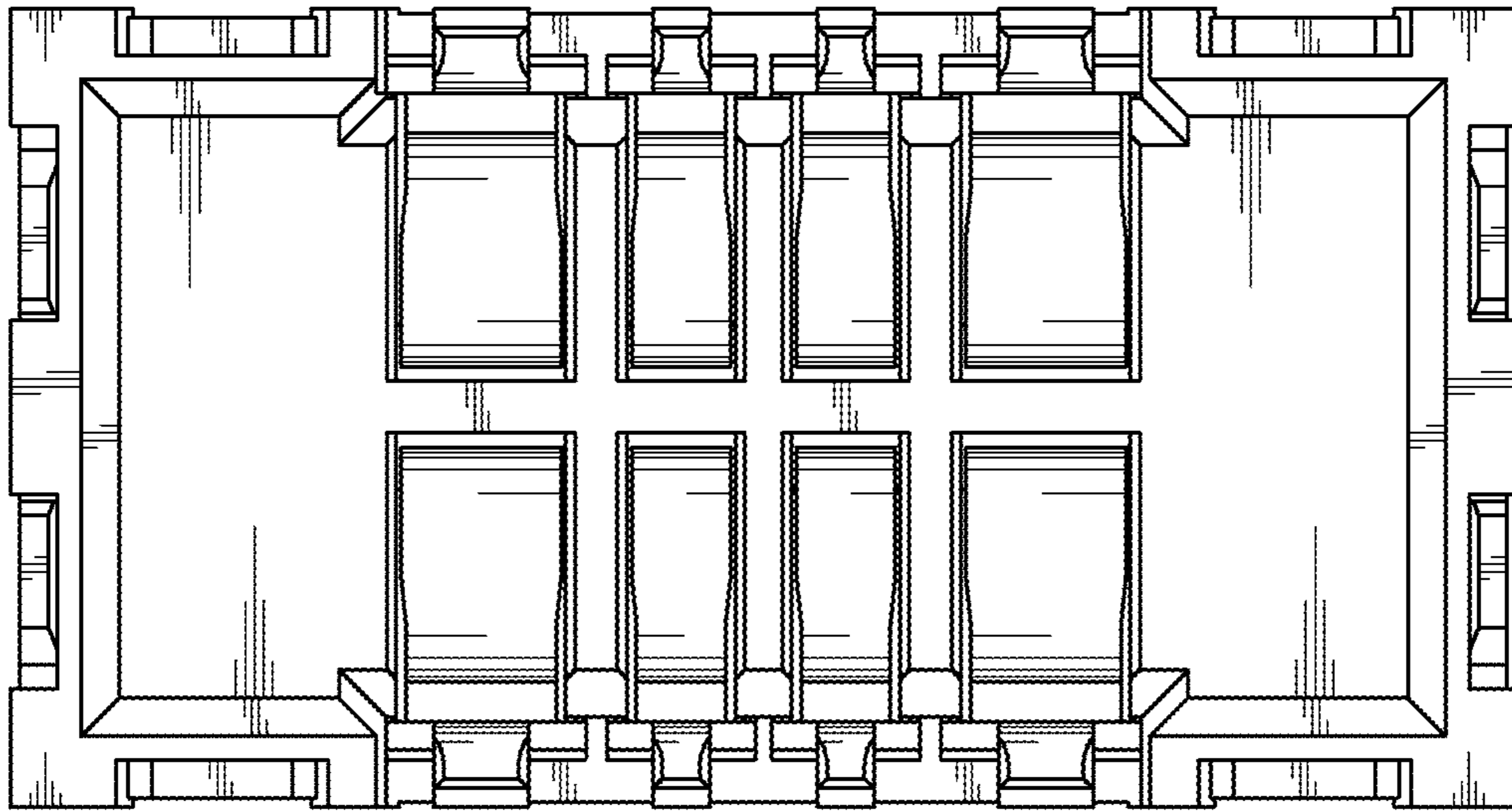


Fig.6

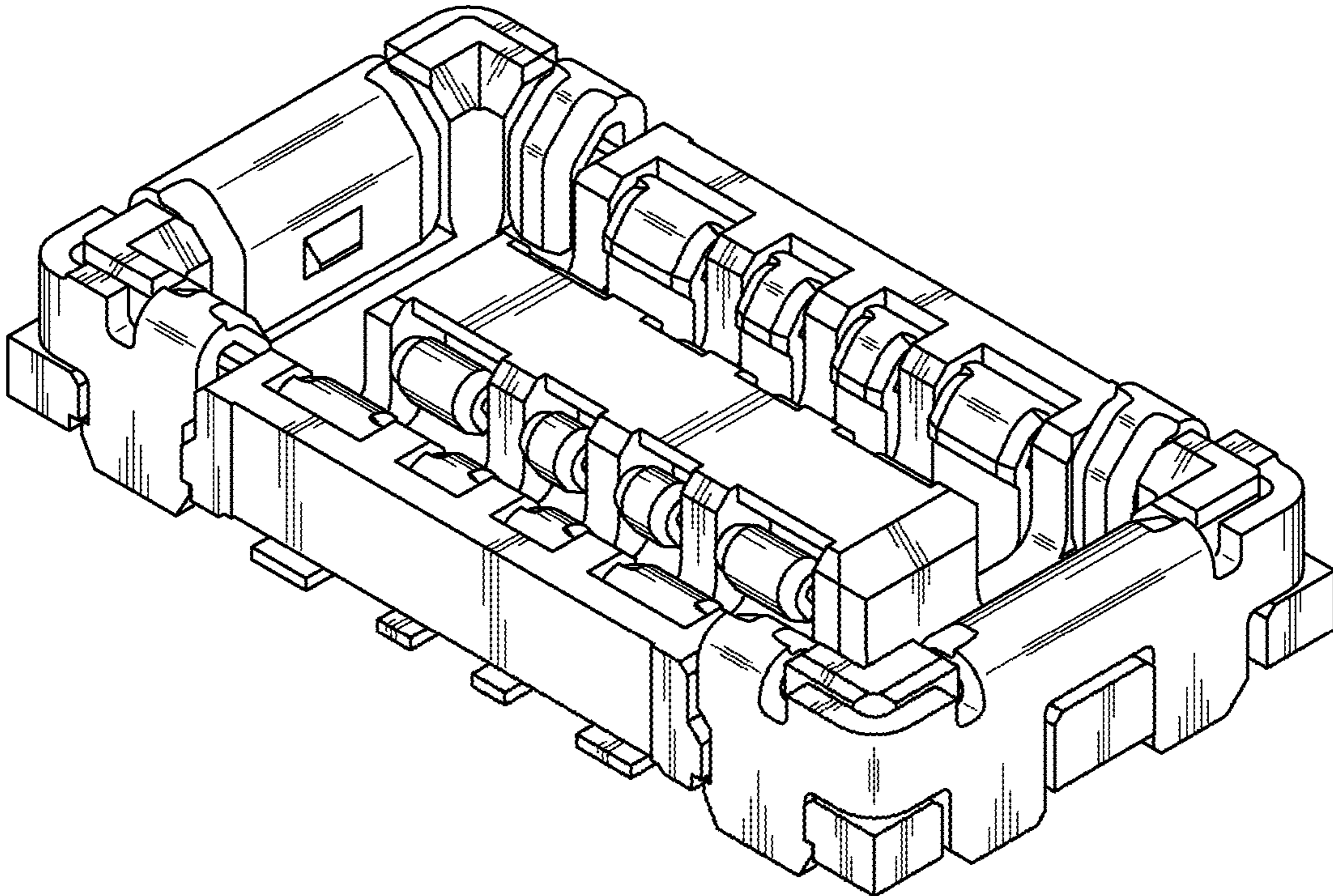


Fig. 7

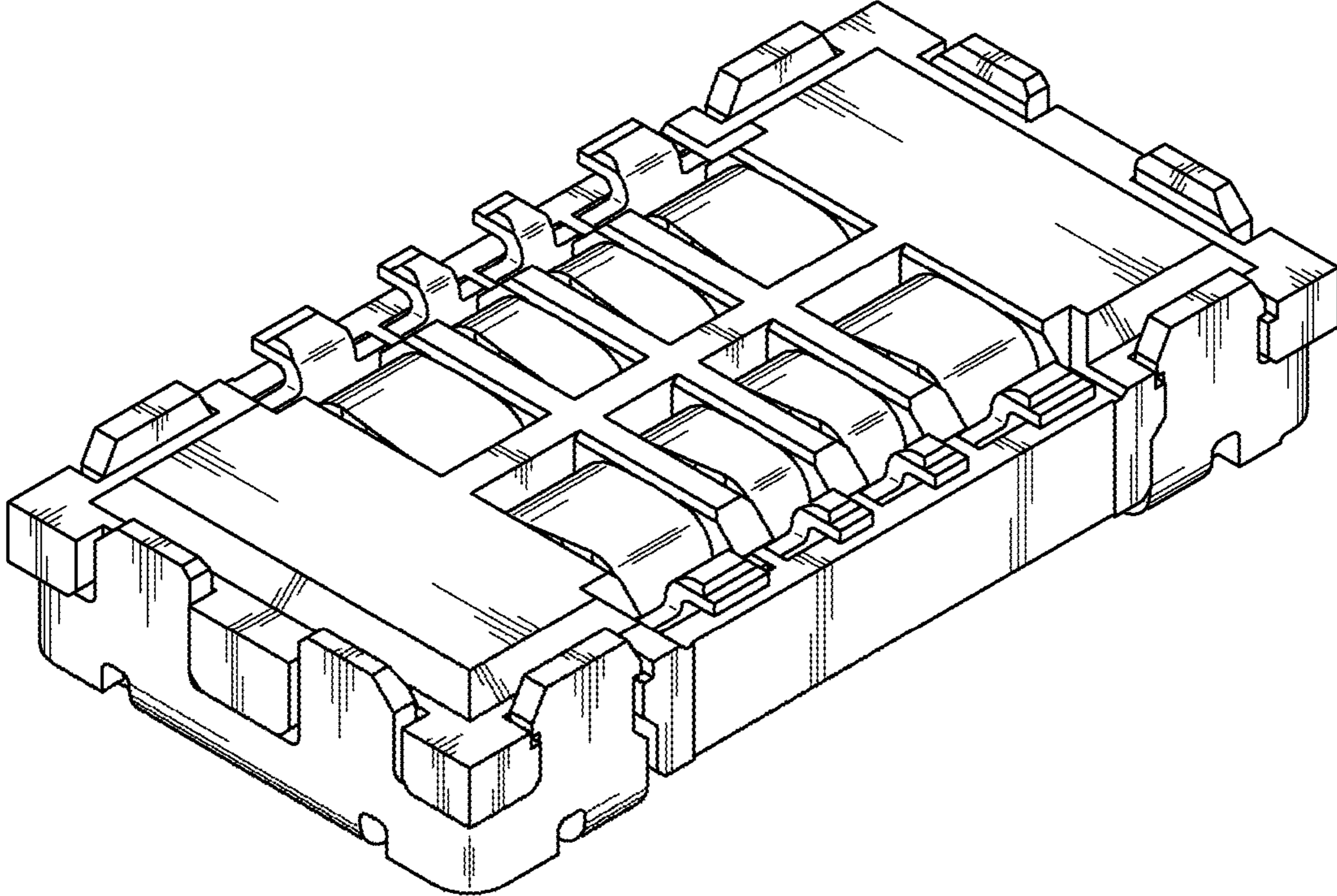


Fig. 8