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

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(54) TRANSFORMER	4,692,577 A * 9/1987 Swanson H01H 39/006 200/82 B
(71) Applicant: Siemens Aktiengesellschaft, München (DE)	D567,755 S * 4/2008 Heinzig D13/110 D567,757 S * 4/2008 Hammer D13/110 8,278,582 B2 * 10/2012 Tu H01H 33/6606 200/289
(72) Inventors: Andreas Beer, Grasbrunn (DE); Grzegorz Dudkiewicz, München (DE); Florian Lohse, München (DE)	9,384,923 B1 * 7/2016 Matuszak H01H 9/52 9,767,978 B1 * 9/2017 Brandt H01H 71/0235 9,793,701 B2 * 10/2017 Springborn H01C 7/12 2003/0006334 A1 * 1/2003 Hoffmann H01F 41/02 242/437
(73) Assignee: SIEMENS AKTIENGESELLSCHAFT, München (DE)	2009/0255905 A1 * 10/2009 Lee H01H 33/6606 218/139

(Continued)

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

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(30) **Foreign Application Priority Data**

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(51) **LOC (11) Cl.** **13-02**

(52) **U.S. Cl.**
USPC **D13/110**

(58) **Field of Classification Search**
USPC D13/101-110, 116, 118, 123, 133-135,
D13/146-151, 153-156, 159, 161, 173,
D13/184, 199; D14/356, 432
CPC H01F 19/04; H01F 27/00; H02M 7/00;
H02M 7/02; H02M 7/04; H02M 7/06;
H02M 3/28; H02M 3/325; H02M 3/335;
H02M 3/33523; H02M 3/3376; H02M
3/3378; H02M 7/10; Y10T 29/49071;
Y10T 307/406

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

1,720,413 A *	7/1929	Greenwood	H01H 33/66 200/289
4,005,297 A *	1/1977	Cleveland	F28D 15/02 165/104.26

OTHER PUBLICATIONS

Ung Dung Cau Tao, posted at Youtube.com, posted on Sep. 13, 2013. online, site visited Oct. 24, 2017. Available from Internet: <https://www.youtube.com/watch?v=tNyZ55tVKS0>.*

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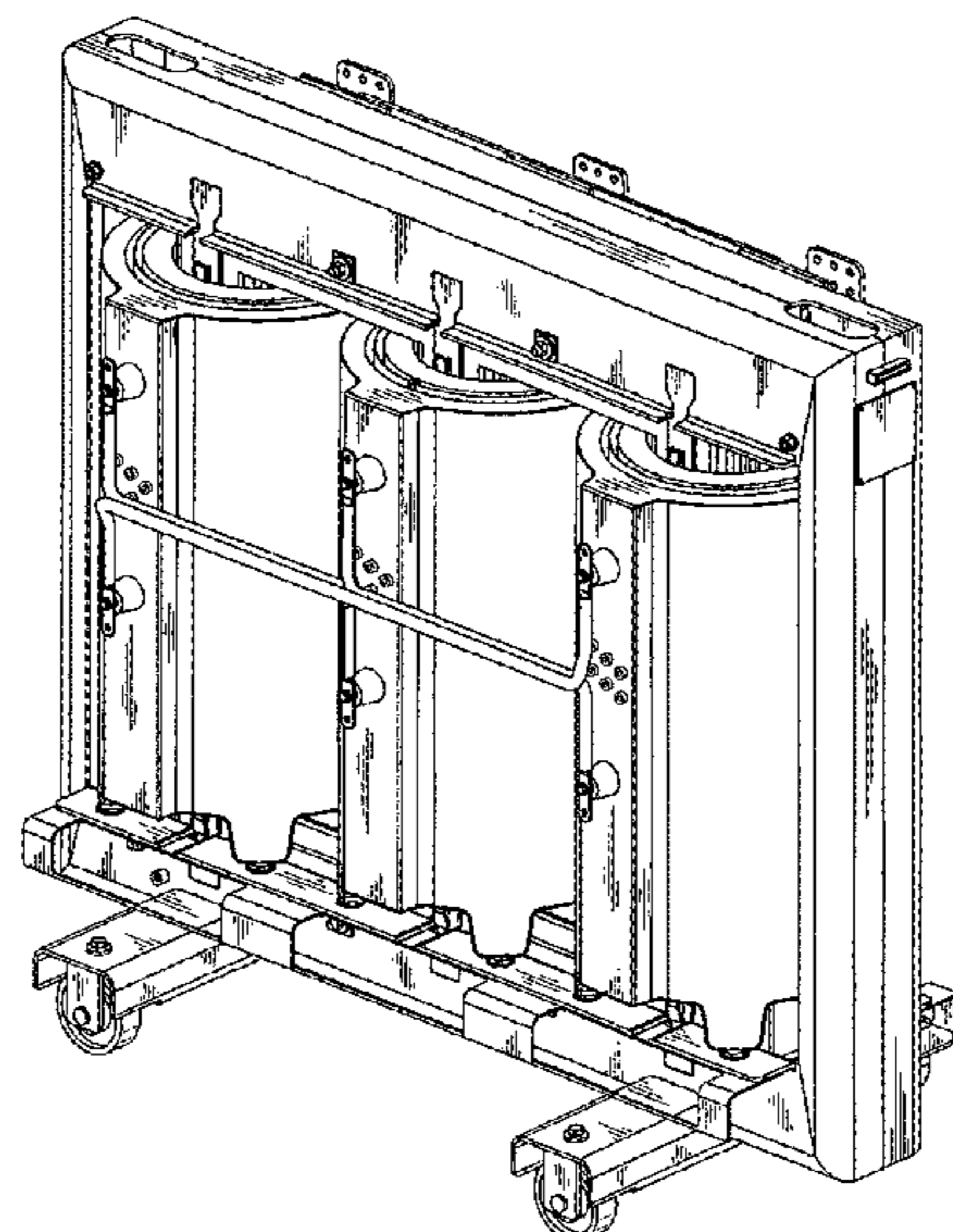
(57) **CLAIM**

The ornamental design for the transformer, as shown and described.

DESCRIPTION

FIG. 1 is a front elevational view of a transformer showing our new design;
FIG. 2 is a rear elevational view thereof;
FIG. 3 is a top elevational view thereof;
FIG. 4 is a bottom elevational view thereof;
FIG. 5 is a right side elevational view thereof;
FIG. 6 is a left side elevational view thereof; and,
FIG. 7 is a front right side perspective view thereof.

1 Claim, 7 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

2015/0109087 A1* 4/2015 Golner H01F 27/323
336/198

OTHER PUBLICATIONS

Special Transformers for Industrial Applications, posted at Energy.siemens.com, posted on May 27, 2014. online, site visited Oct. 24, 2017. Available from internet: <https://www.energy.siemens.com/hq/en/power-transmission/transformers/special-industry-transformers/>.*

Dry Type Transformer, posted at Youtube.com, posted on Jun. 3, 2014. online, site visited Oct. 24, 2017. Available from Internet: <https://www.youtube.com/watch?v=0BXs2yO3w44>.*

* cited by examiner

FIG. 1

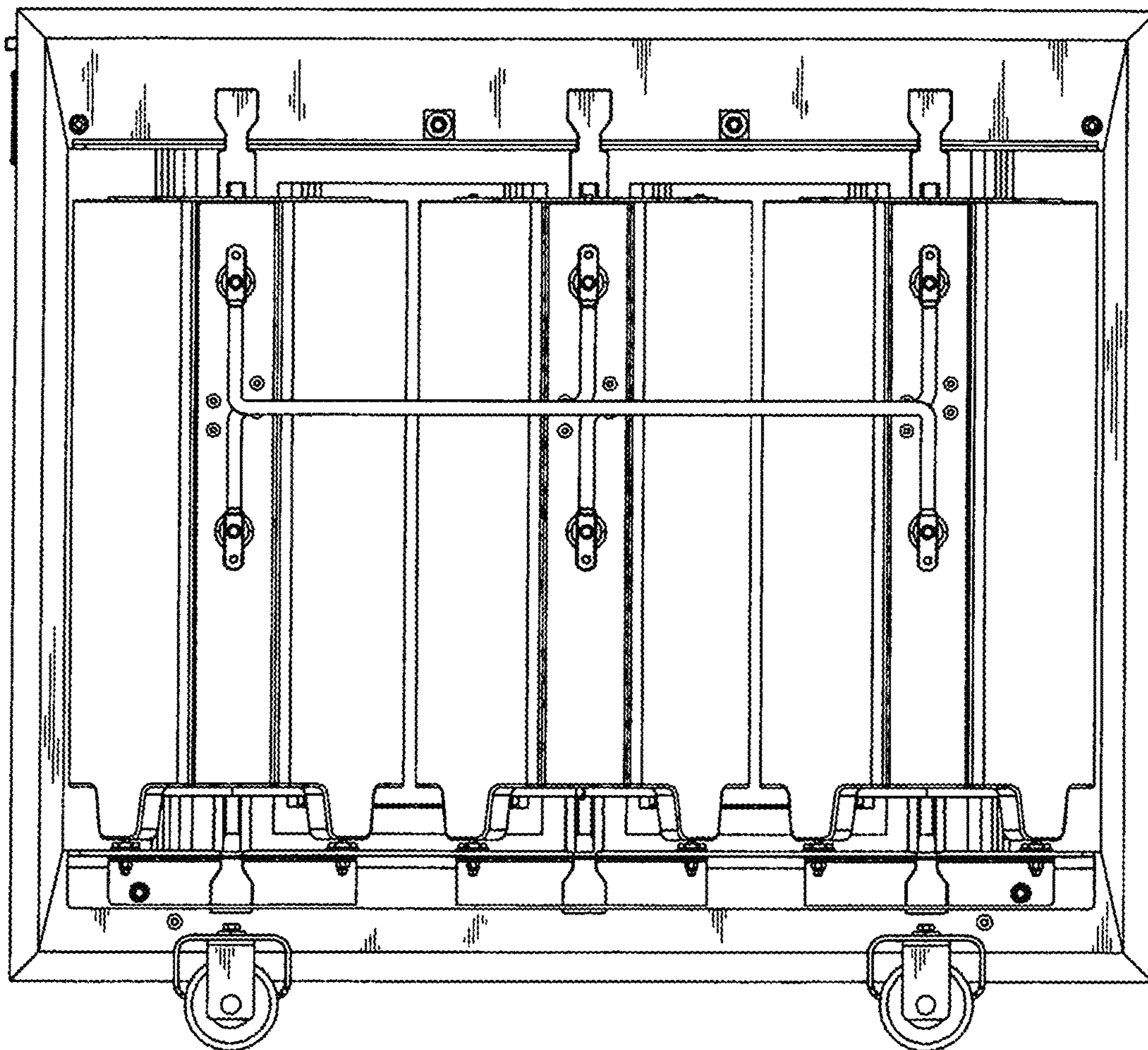


FIG. 2

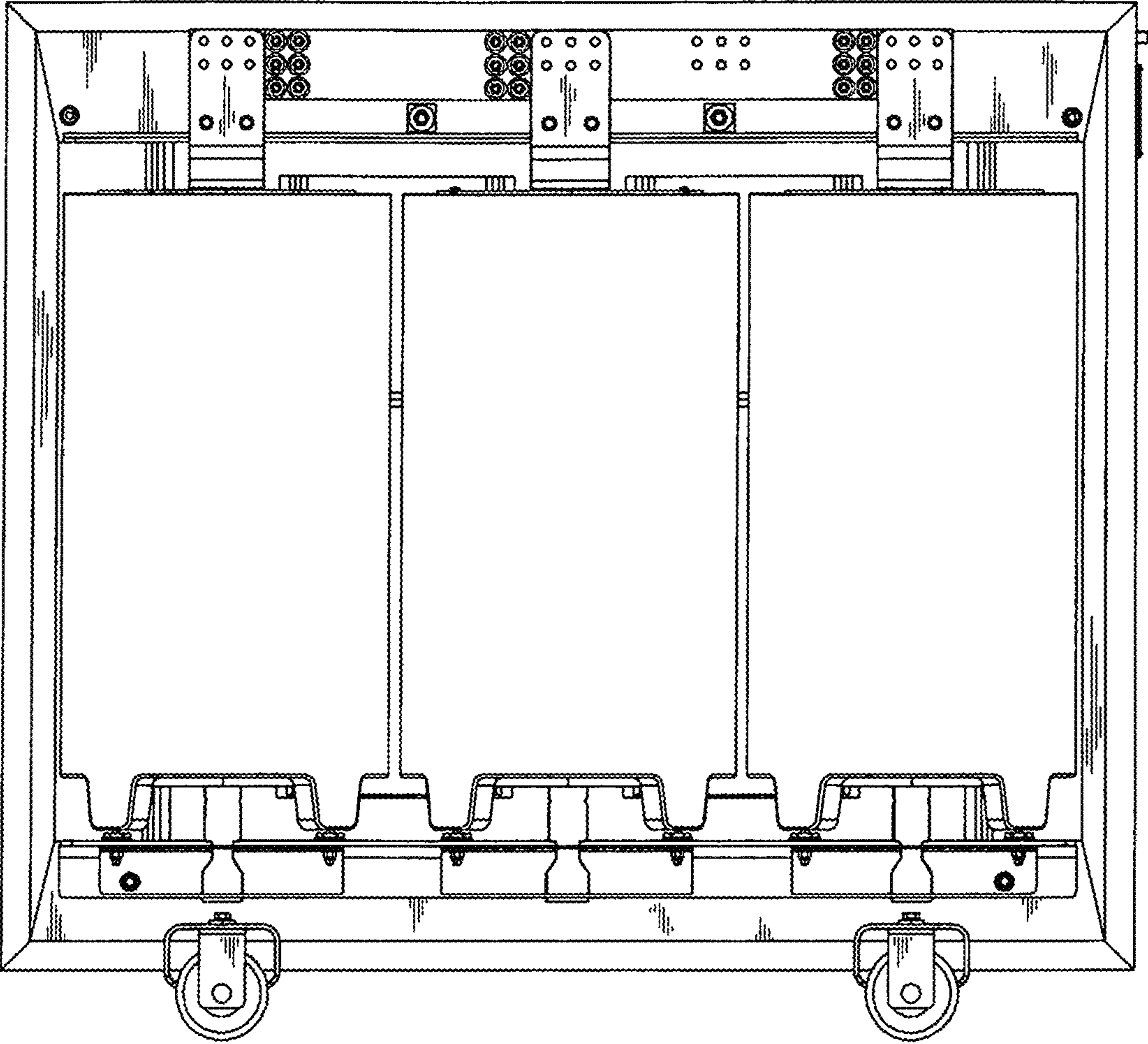


FIG. 3

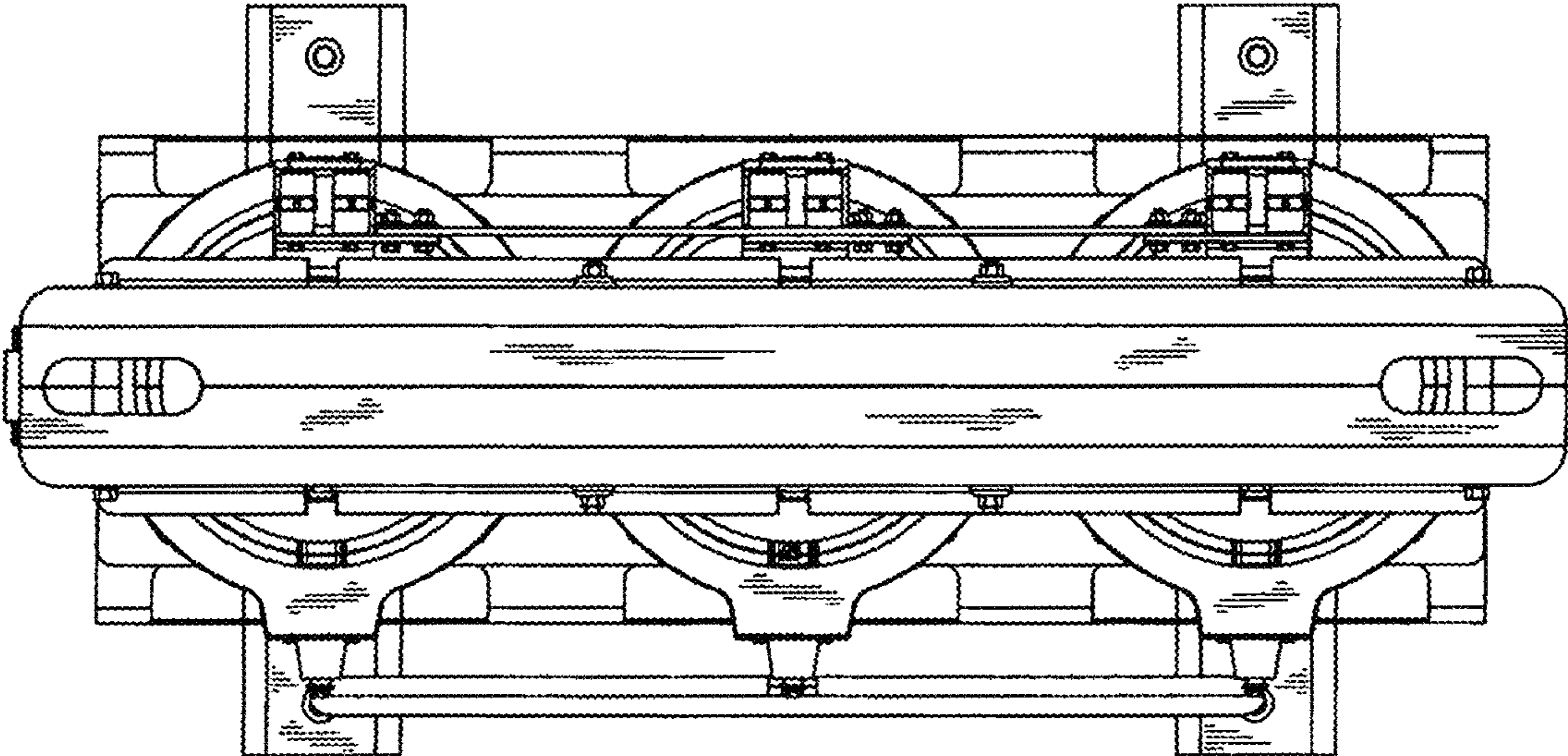


FIG. 4

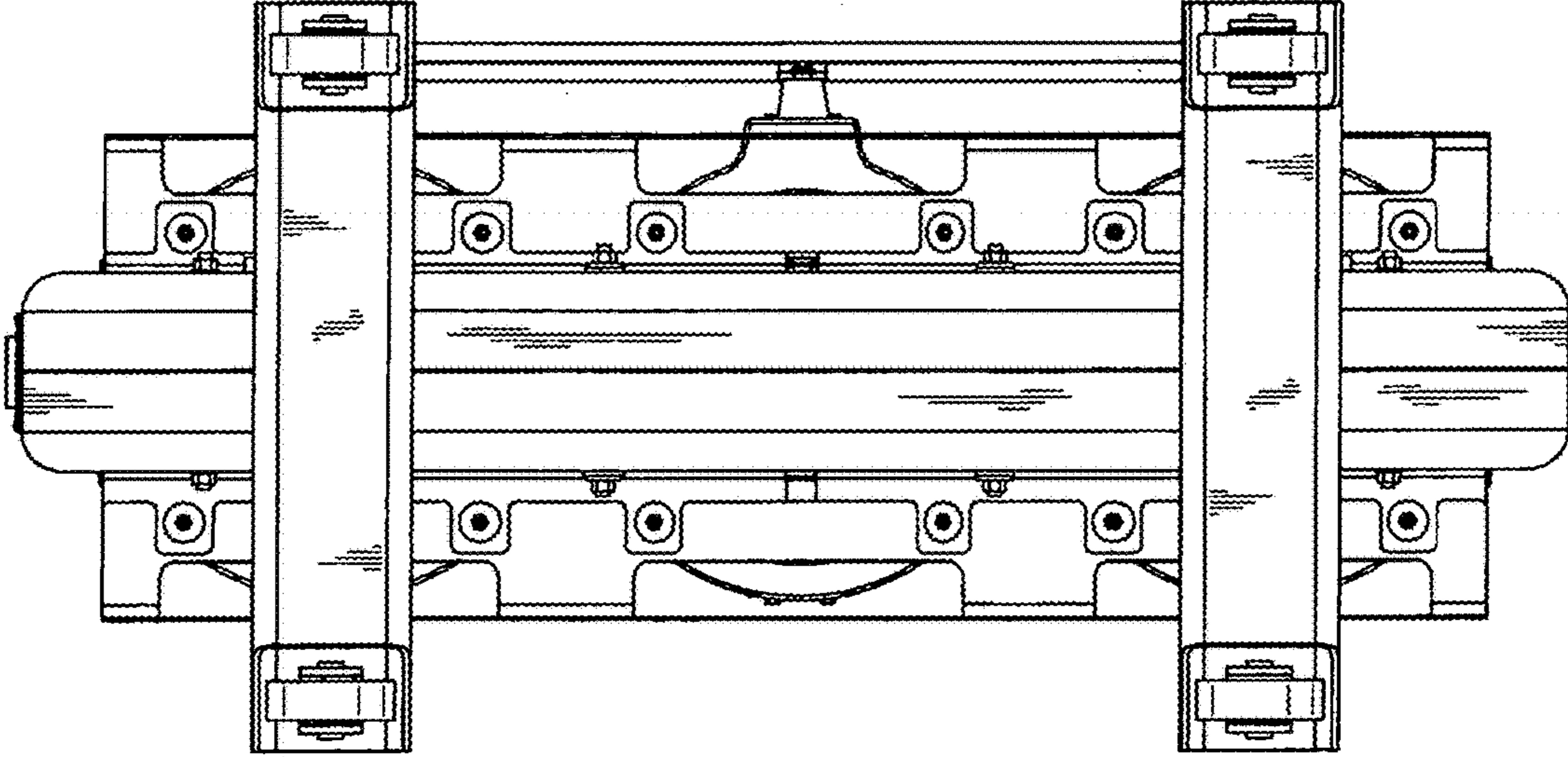


FIG. 5

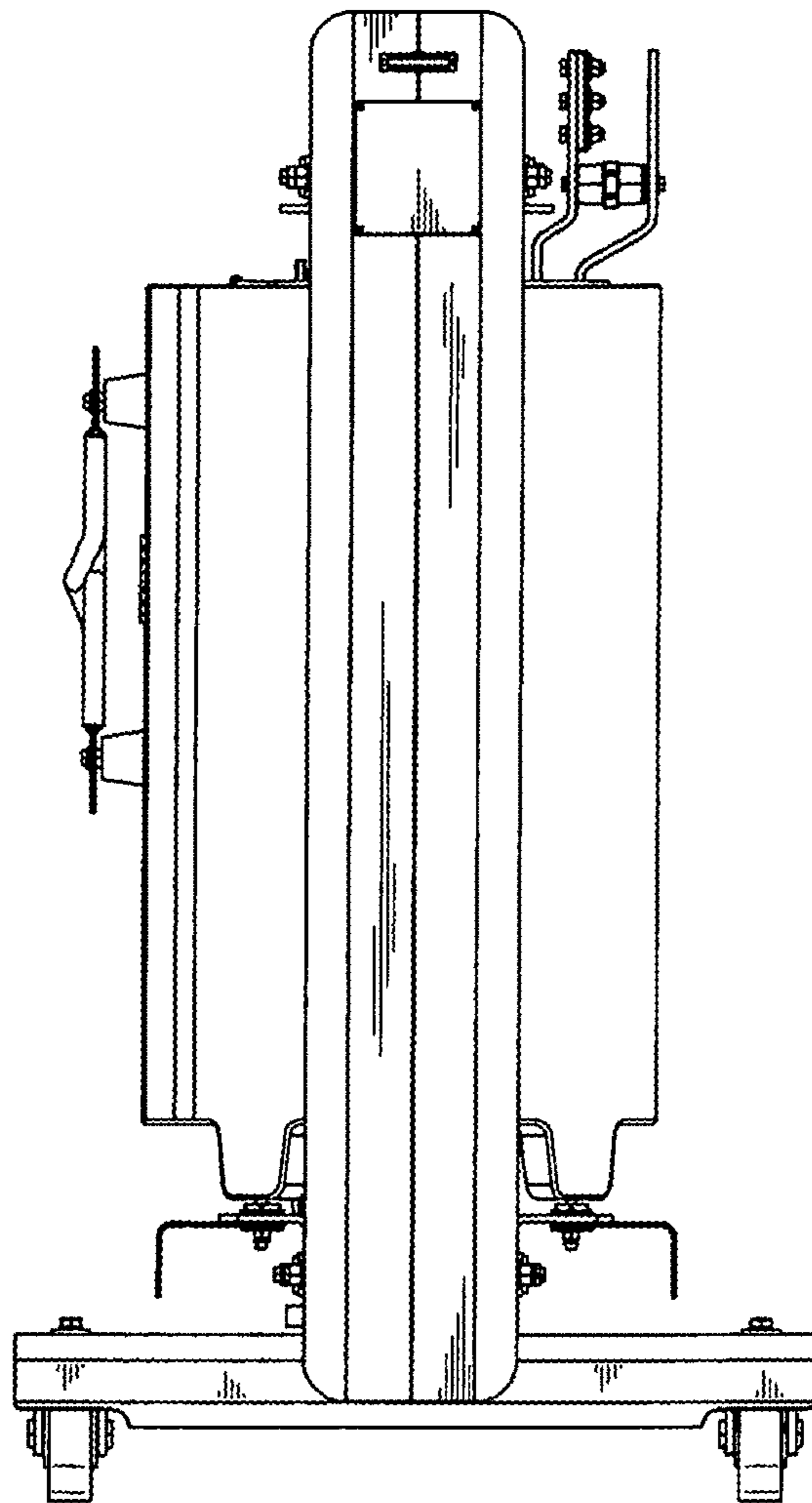


FIG. 6

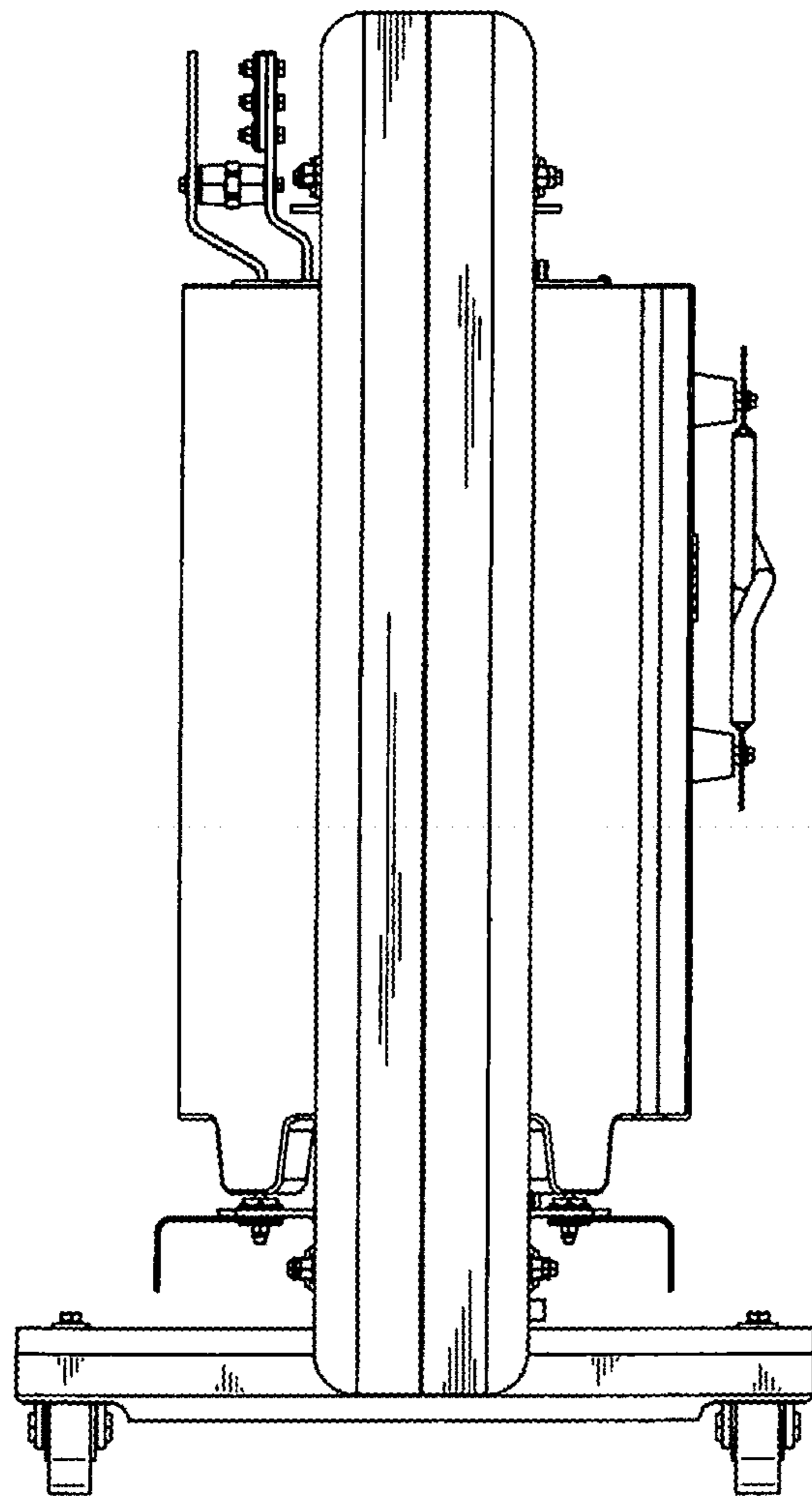


FIG. 7

