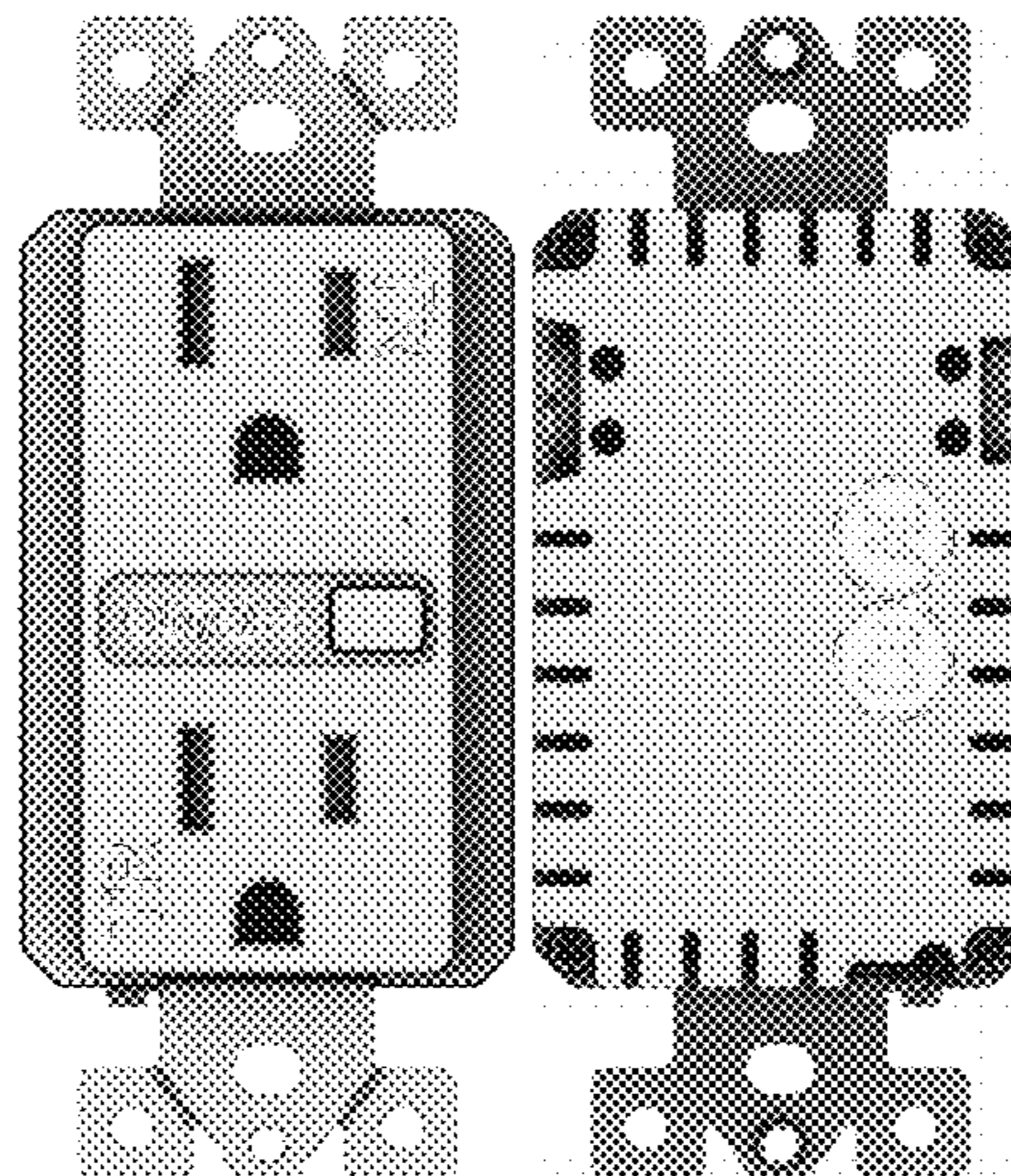




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Fu et al. (45) **Date of Patent:** **** Nov. 29, 2022**

- (54) **SOCKET** 5,146,385 A * 9/1992 Misencik H01R 13/6666
 361/111
- (71) Applicant: **SCHNEIDER ELECTRIC (AUSTRALIA) PTY LTD**, Macquarie Park (AU) 5,510,760 A 4/1996 Marcou et al.
 D413,862 S 9/1999 Huang et al.
 D419,531 S 1/2000 Keung et al.
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 6,204,449 B1 3/2001 Putorti et al.
 6,433,555 B1 * 8/2002 Leopold H01H 83/04
 324/509
- (73) Assignee: **Schneider Electric (Australia) PTY LTD**, Macquarie Park (AU) 6,437,700 B1 8/2002 Herzfeld et al.
 D462,660 S 9/2002 Huang et al.
 D470,108 S 2/2003 Daoxian et al.
- (**) Term: **15 Years** D512,021 S * 11/2005 Fort D13/139.6
 D521,932 S * 5/2006 Fort D13/139.6
 D532,376 S 11/2006 Bazayev et al.
 D545,272 S 6/2007 Zhang et al.
- (21) Appl. No.: **29/805,926** D598,859 S * 8/2009 Vaccaro D13/139.3
 D601,962 S 10/2009 Song
 D674,753 S 1/2013 Jansen et al.
 D686,577 S 7/2013 Flagello
- Related U.S. Application Data** D692,385 S * 10/2013 Dodal D13/139.1
 D703,139 S * 4/2014 Dodal D13/139.1
 D715,225 S 10/2014 Mininger et al.
 D719,512 S 12/2014 Roy
- (62) Division of application No. 29/703,901, filed on Aug. 30, 2019. D722,562 S 2/2015 Restrepo et al.
 D744,952 S 12/2015 Ni et al.
- (51) **LOC (13) Cl.** **13-03** D777,673 S * 1/2017 Gouhl D13/139.3
 (52) **U.S. Cl.** USPC **D13/139.1** D800,662 S 10/2017 Wu
 9,871,329 B1 1/2018 Lacey et al.
- (58) **Field of Classification Search** D813,818 S 3/2018 Ni et al.
 USPC D13/137.1-137.4, 138.1, 138.2, D817,281 S 5/2018 Salas et al.
 D13/139.1-139.8, 171, 173, 174, 178, D817,884 S 5/2018 Salas et al.
 D13/184, 110 D817,885 S 5/2018 Salas et al.
 D820,211 S 6/2018 Salas et al.
 CPC .. H01R 13/639; H01R 13/6392; H01R 13/64; D840,349 S * 2/2019 Weeks D13/139.6
 H01R 13/642; H01R 13/648; H01R 13/652; H01R 13/66; H01R 13/6666; D845,245 S 4/2019 Tao
 H01R 13/6683; H01R 13/68; H01R 13/713; H01R 25/00; H01R 25/003; D851,042 S 6/2019 Pan et al.
 H01R 25/006; H01R 2103/00; H01R 24/20; H01R 24/22; H01R 24/28; H01R 24/30; H02G 3/12; H02G 3/14; H01H 73/06; H01H 71/58; H01H 83/04; H01H 73/08
- See application file for complete search history.
- (56) **References Cited** D856,935 S 8/2019 Pan et al.
 D858,444 S 9/2019 Ni et al.
 D858,445 S 9/2019 Ni et al.
 10,483,679 B1 11/2019 Kadam et al.
 D870,047 S 12/2019 Salas et al.
 D870,671 S 12/2019 Salas et al.
 D873,775 S 1/2020 Salas et al.
 D877,081 S 3/2020 Salas et al.
 D883,220 S 5/2020 Salas et al.
 D883,221 S 5/2020 Salas et al.
 D887,362 S 6/2020 Pan et al.
 D887,983 S * 6/2020 Altonen D13/139.3
 10,770,843 B1 9/2020 Zhang et al.
 D908,093 S 1/2021 Pan et al.
 D911,972 S 3/2021 Ni et al.
 D928,713 S 8/2021 Ni et al.
- U.S. PATENT DOCUMENTS
 4,574,260 A 3/1986 Franks
 4,872,081 A * 10/1989 Murphy H01R 13/6666
 D13/160



D931,222	S	9/2021	Ni et al.	
D935,414	S	11/2021	Ni et al.	
D936,597	S	11/2021	Salas et al.	
D936,599	S	11/2021	Salas	
D945,371	S	3/2022	Junko et al.	
2003/0016477	A1	1/2003	Li	
2003/0206085	A1	11/2003	Germain et al.	
2004/0021996	A1	2/2004	Wu et al.	
2004/0070474	A1	4/2004	Wu et al.	
2004/0252425	A1	12/2004	Baldwin et al.	
2005/0212646	A1*	9/2005	Watchorn	H01H 37/5409 337/16
2005/0264383	A1	12/2005	Zhang	
2006/0028316	A1	2/2006	Fabian et al.	
2006/0044086	A1	3/2006	Wang	
2007/0035898	A1	2/2007	Baldwin et al.	
2007/0211397	A1	9/2007	Sokolow et al.	
2007/0268635	A1	11/2007	Bonasia	
2008/0112099	A1	5/2008	Li et al.	
2009/0086389	A1	4/2009	Huang et al.	
2009/0227130	A1	9/2009	Carbone et al.	
2009/0256661	A1	10/2009	Li	
2010/0226053	A1	9/2010	Kamor et al.	
2011/0011714	A1	1/2011	Gao	
2011/0104918	A1	5/2011	Chen et al.	
2011/0104919	A1	5/2011	Patel et al.	
2013/0184890	A1*	7/2013	Li	H02H 3/006 713/320
2013/0260613	A1*	10/2013	Misener	F21V 21/04 439/653
2014/0321006	A1	10/2014	Huang	
2015/0333498	A1	11/2015	Weeks	
2018/0061605	A1	3/2018	Huang	
2019/0097364	A1	3/2019	Mortun et al.	
2022/0020551	A1	1/2022	Chen et al.	

OTHER PUBLICATIONS

Topgreener Smart Wifi Outlet with Energy Monitoring. Amazon. Oldest review date: Oct. 8, 2018. Retrieval date: Mar. 24, 2022. Retrieved from internet: <https://www.amazon.com/dp/B07BX13MLF> (Year: 2018).*

GE Z-wave 15-Amp Residential DUplex Smart Outlet. Lowe's. Oldest review date: Mar. 17, 2015. Retrieval date: Mar. 24, 2022. Retrieved from internet: <https://www.lowes.com/pd/GE-Z-wave-White-15-Amp-Duplex-Smart-Outlet-Residential-Outlet/50329997> (Year: 2015).*

X Series 15A 125V Tamper Resistant USB A/A 4.8A Duplex Decorator Outlet by Schneider Electric. se.com. Date viewed: Jun. 23, 2021. Retrieved from internet: <https://www.se.com/us/en/product/SQR55141WH/x-series-15a-125v-tamper-resistant-usb-a-a-4.8a-duplex-decorator-outlet-back-wire-clamps-matte-white> (Year: 2021).

X Series 15A 125V Tamper Resistant USB NC 5.4A Duplex Decorator Outlet by Schneider Electric. se.com. Date viewed: Jun. 23, 2021. Retrieved from internet: <https://www.se.com/us/en/product/SQR55153WH/x-series-15a-125v-tamper-resistant-usb-a-c-5.4a-duplex-decorator-outlet-back-wire-clamps-matte-white> (Year: 2021).

X Series 20A 125V Tamper Resistant USB A/A 4.8A Duplex Decorator Outlet by Schneider Electric. se.com. Date viewed: Jun. 23, 2021. Retrieved from internet: <https://www.se.com/us/en/product/SQR55241WH/x-series-20a-125v-tamper-resistant-usb-a-a-4.8a-duplex-decorator-outlet-back-wire-clamps-matte-white> (Year: 2021).

Topgreener 3.6A USB Wall Outlet Charger (Upgraded) 15A Tamper-Resistant Receptacles. Amazon. Oldest review date: Mar. 7, 2018.

Retrieval date: Jun. 24, 2021. Retrieved from internet: <https://www.amazon.com/TOPGREENER-Outlet-Receptacle-Compatible-Samsung/dp/B076PKVPHQ> (Year: 2018).

Topgreener TU21558AC 5.8A Ultra-High-Speed USB Type C/A Wall Outlet Charger, 15A TR Receptacle. Amazon. Oldest review date (5.8A outlet): Jun. 25, 2018. Retrieval date: Jun. 24, 2021. Retrieved from internet: <https://www.amazon.com/TOPGREENER-TU2154A-Electrical-Receptacle-Screwless/dp/B074KNH1JS> (Year: 2018).

GFCI Outlet Tamper Resistant Receptacle with LED indicator by micmi. Amazon. Oldest review date: Apr. 9, 2019. Retrieval date: Mar. 24, 2022. Retrieved from internet: <https://www.amazon.com/Resistant-Receptacle-Indicator-Wallplate-MICMI/dp/B07MCSXV5M> (Year: 2019).

Micmi GFCI Outlet Tamper Resistant Receptacle with LED Indicator. Amazon. Oldest review date: Oct. 6, 2018. Retrieval date: Mar. 24, 2022. Retrieved from internet: <https://www.amazon.com/dp/B08BTSC13Z> (Year: 2018).

Embrighten 55256 Z-Wave Plus Smart Receptacle. Amazon. Oldest review date: Jul. 15, 2017. Retrieval date: Mar. 24, 2022. Retrieved from internet: <https://www.amazon.com/Enbrighten-55256-Receptacle-Assistant-Tamper-Resistant/dp/B07361JZ2H> <https://www.annazon.com/Enbrighten-55256-Receptacle-Assistant-Tamper-Resistant/dp/B07361JZ2H> (Year: 2017).

Leviton DW15R-1BW Decora Smart Wi-Fi Tamper Resistant Outlet. Amazon. Oldest review date: Feb. 3, 2020. Retrieval date: Mar. 24, 2022. Retrieved from internet: <https://www.amazon.com/Leviton-DW15R-1BW-Resistant-Required-Assistant/dp/B088P5LSD4> (Year: 2020).

* cited by examiner

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(57)

CLAIM

The ornamental design for a socket, as shown and described.

DESCRIPTION

FIG. 1 is a front view of the socket, showing my new design. FIG. 2 is a back view thereof. FIG. 3 is a top view thereof. FIG. 4 is a bottom view thereof. FIG. 5 is a left side elevational view thereof. FIG. 6 is a right side elevational view thereof. FIG. 7 is a front perspective view thereof; and, FIG. 8 is a back perspective view thereof. The masked areas adjacent to the dash-dot broken lines in the drawings depict portions of the socket that form no part of the claimed design. The dash-dot broken lines define the bounds of the claimed design and form no part thereof. The masked areas adjacent to the broken lines in the drawings form no part of the claimed design. The dash-dot broken lines define the bounds of the claimed design and form no part thereof.

1 Claim, 4 Drawing Sheets

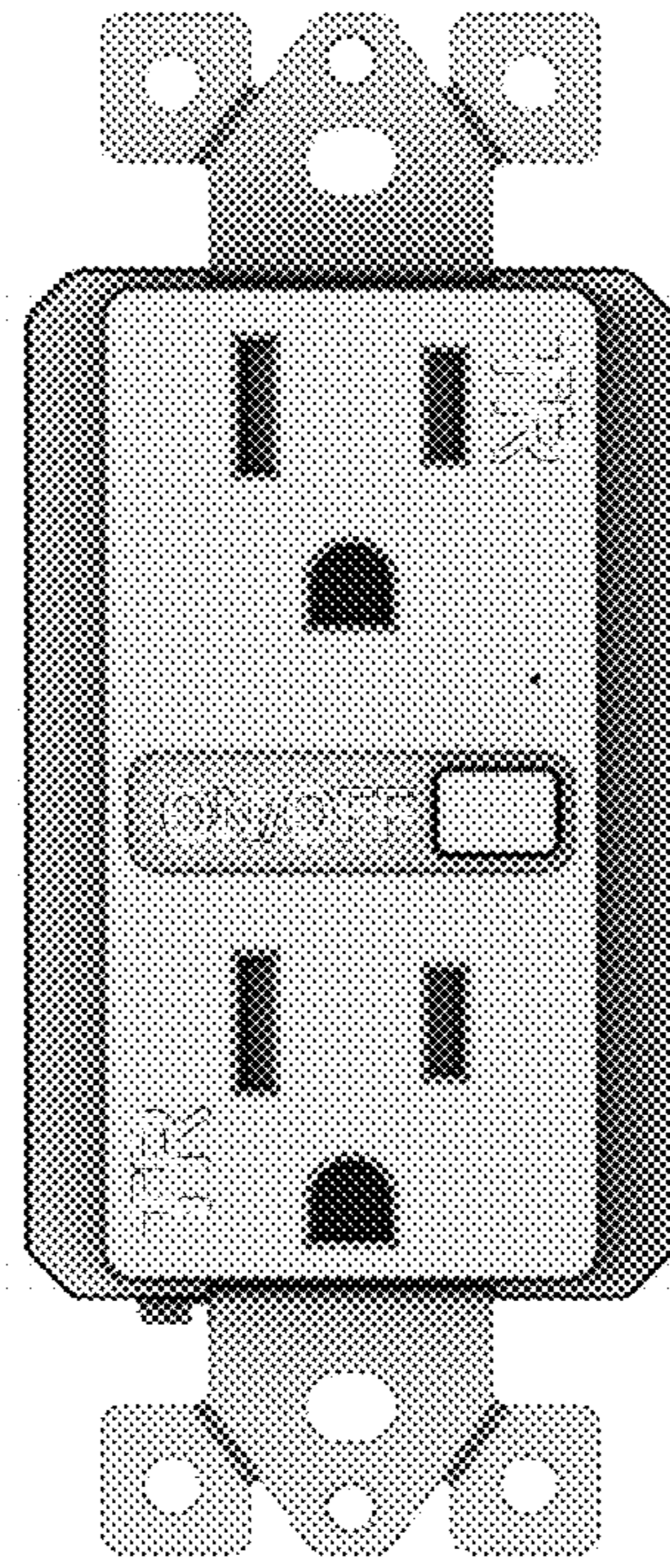


FIG. 1

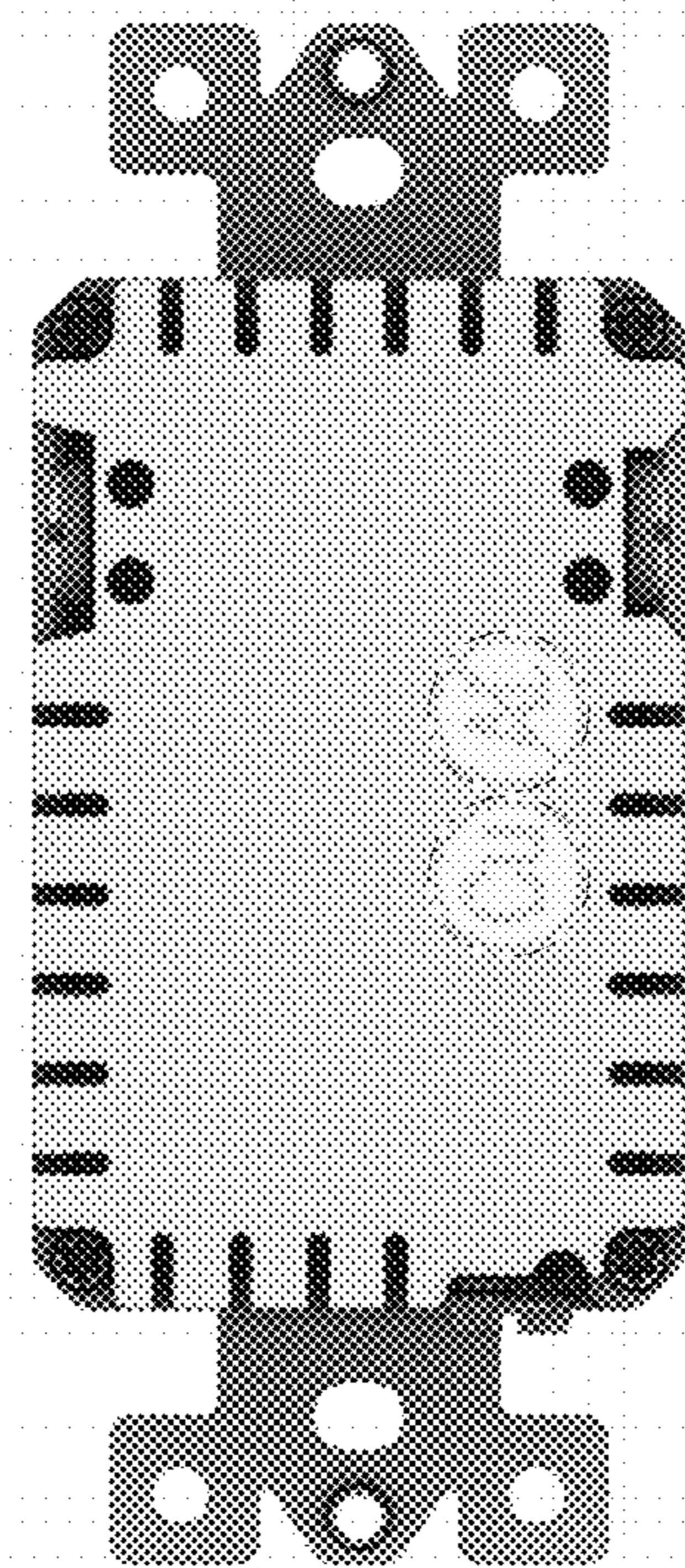


FIG. 2

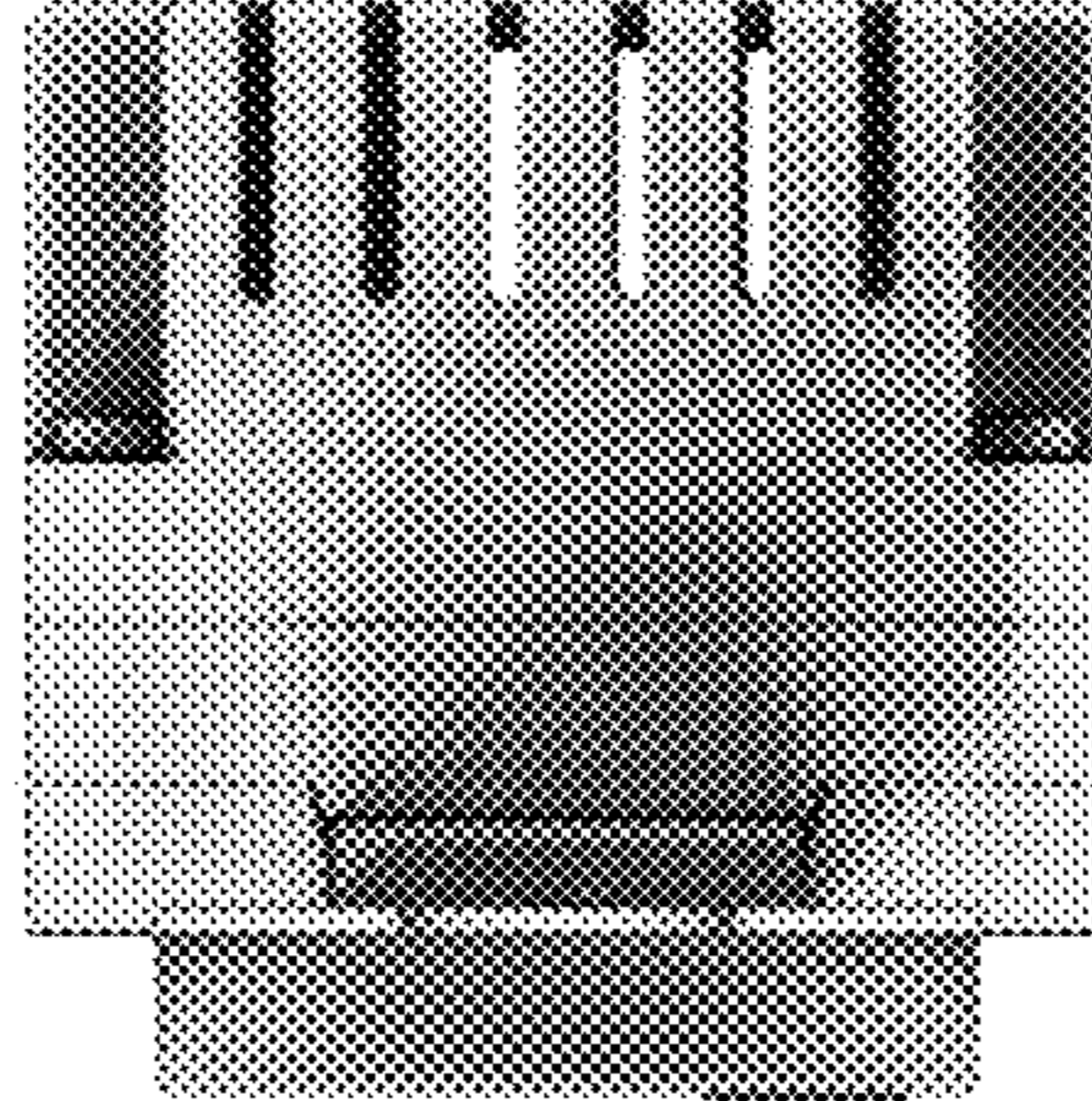


FIG. 3

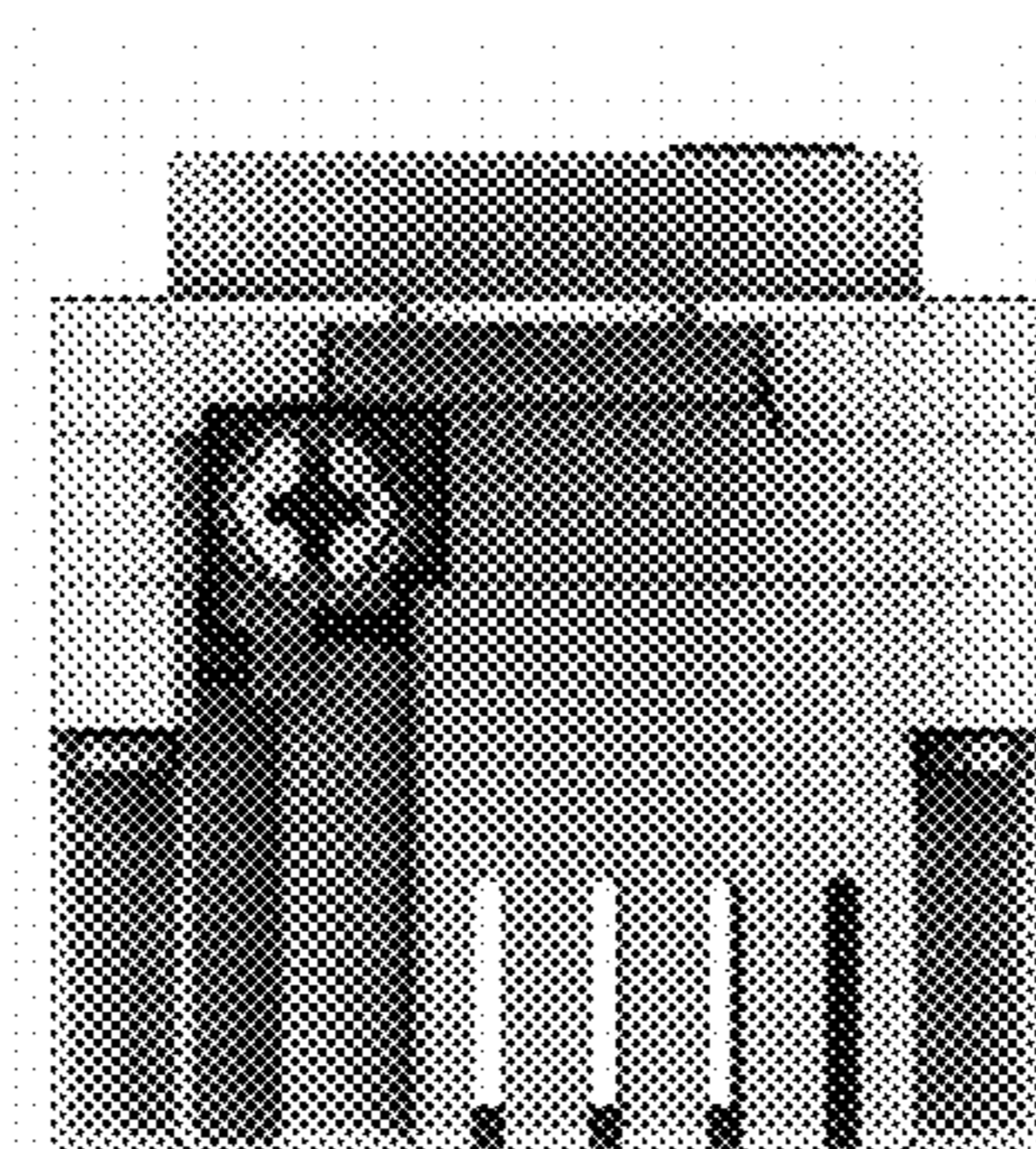


FIG. 4

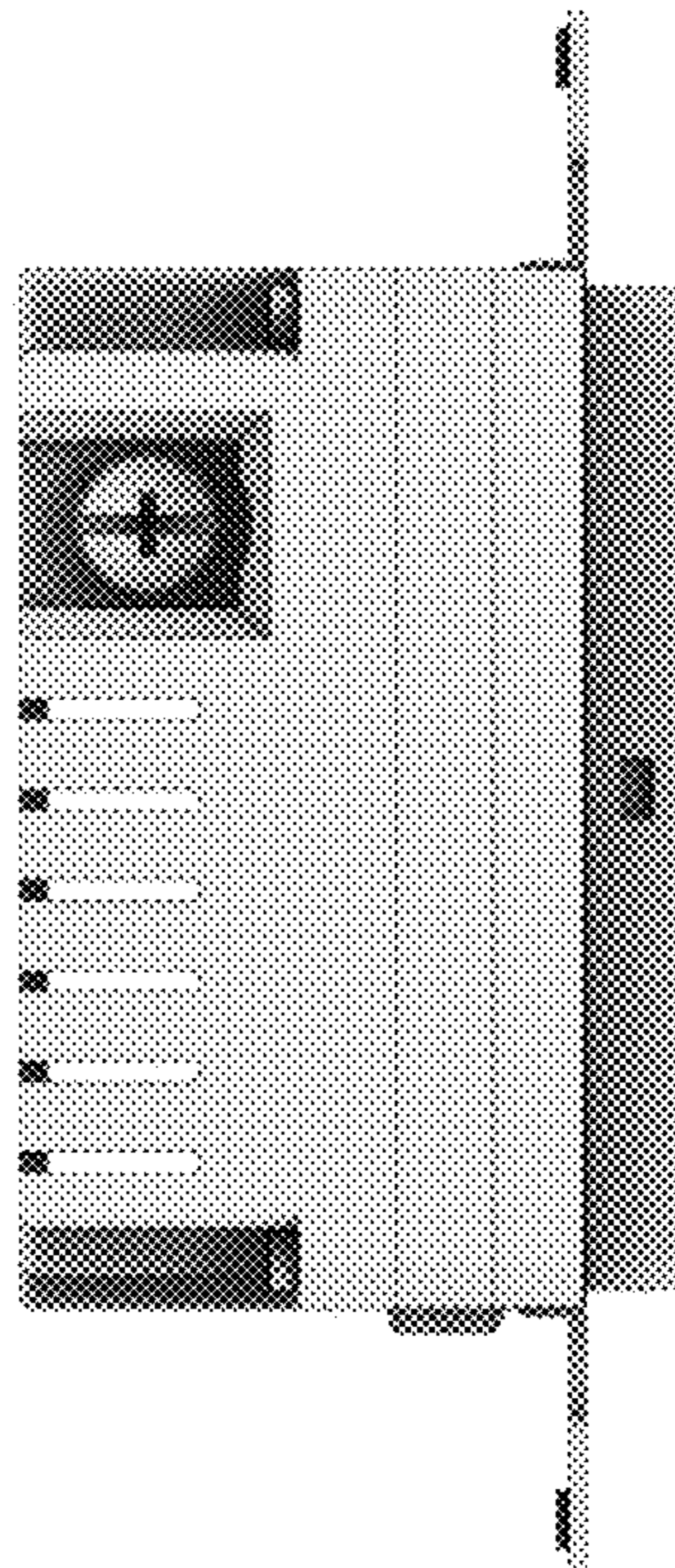


FIG. 5

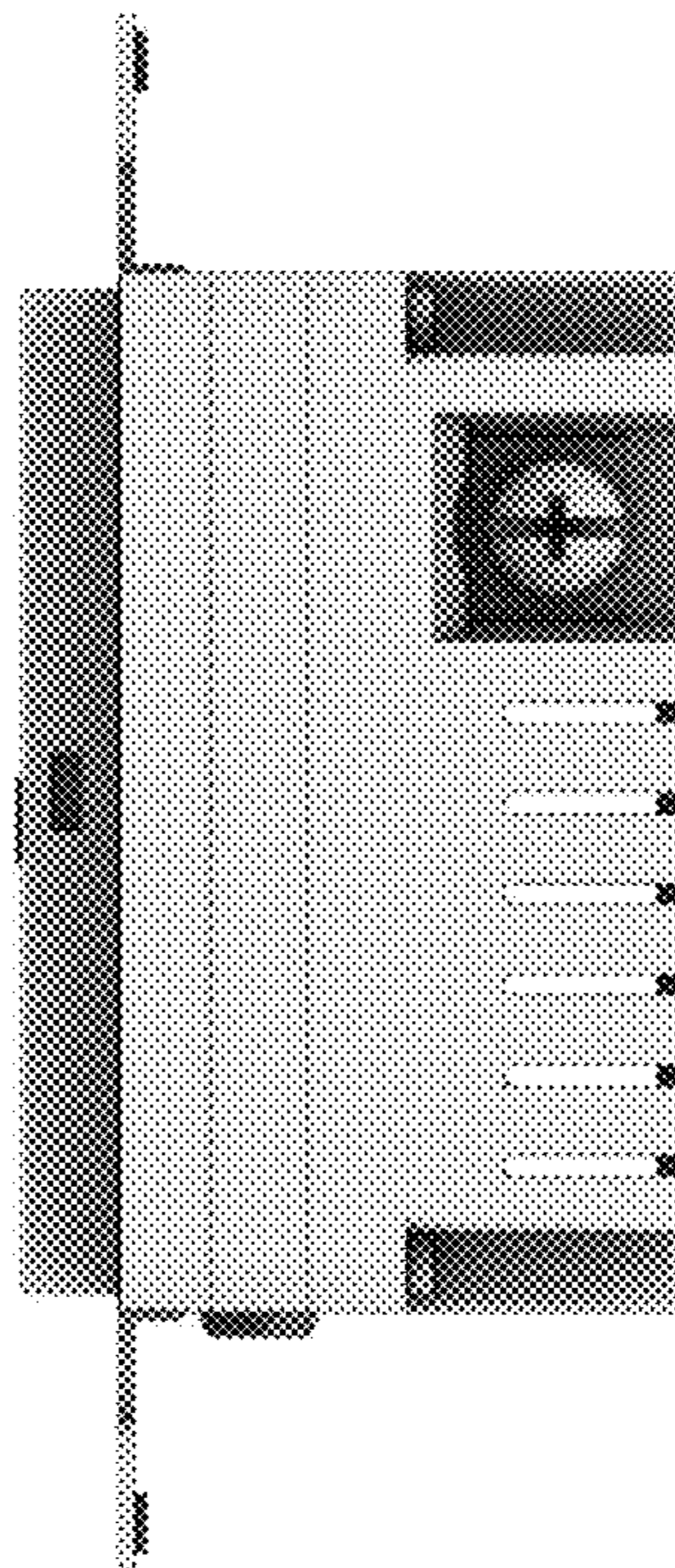


FIG. 6

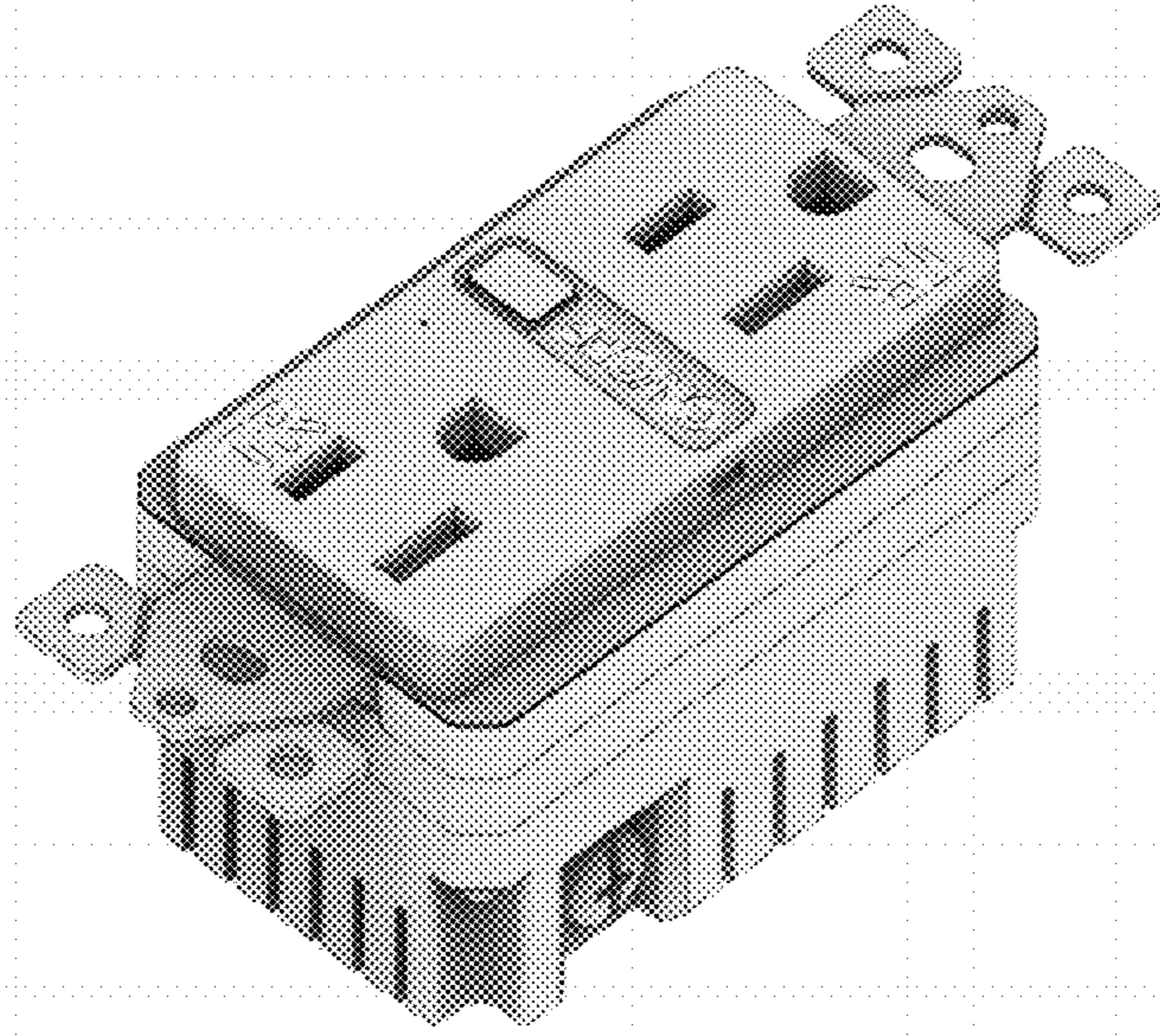


FIG. 7

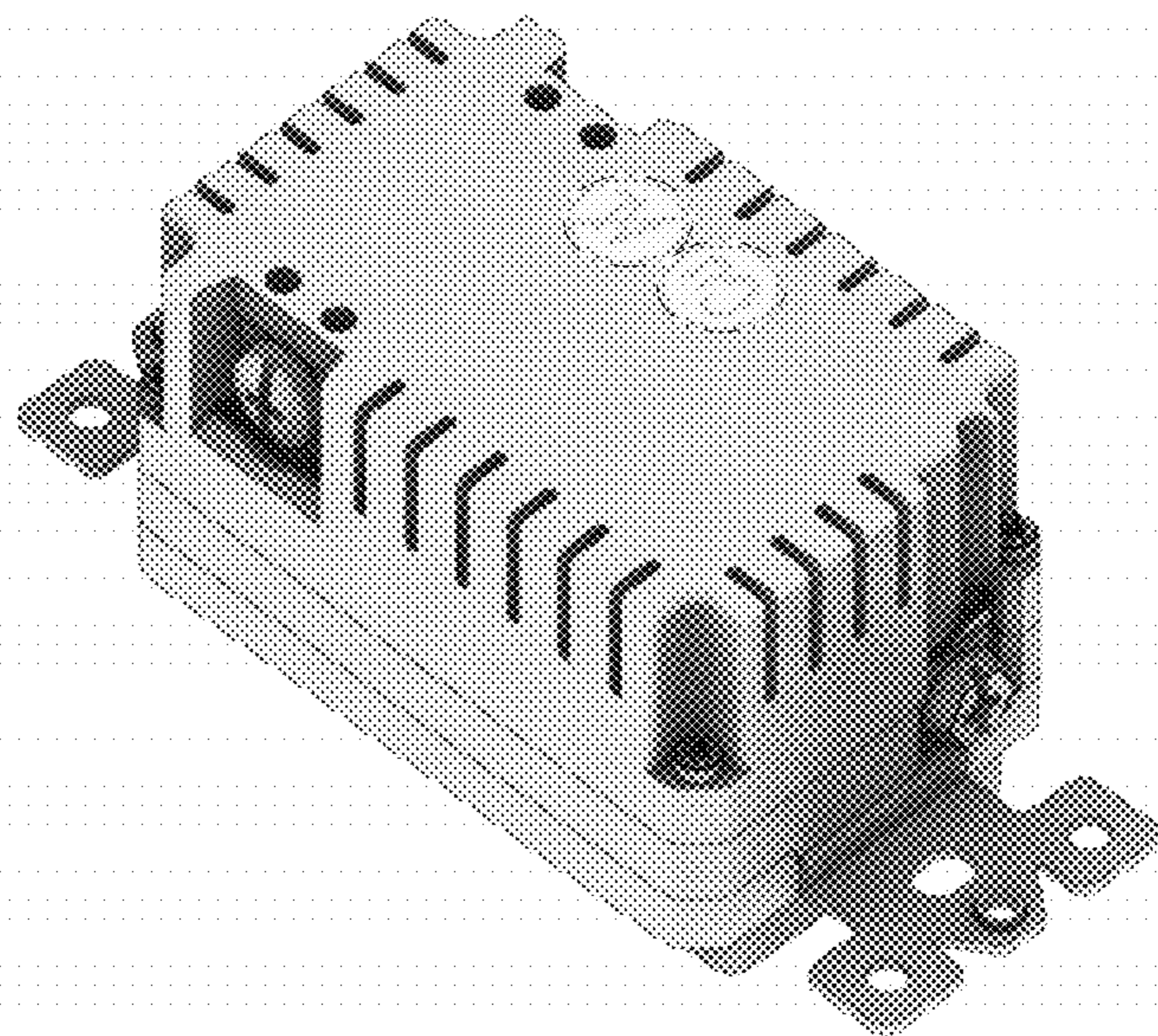


FIG. 8