



US00D987580S

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

(10) **Patent No.:** **US D987,580 S**
(45) **Date of Patent:** **** May 30, 2023**

(54) **SOCKET**

(71) Applicant: **SCHNEIDER ELECTRIC (AUSTRALIA) PTY LTD**, Macquarie Park (AU)

(72) Inventors: **Jiayu Fu**, Shenzhen (CN); **Fuhua Shan**, Shenzhen (CN)

(73) Assignee: **Schneider Electric (Australia) PTY LTD**, Macquarie Park (AU)

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

(21) Appl. No.: **29/805,919**

(22) Filed: **Aug. 31, 2021**

Related U.S. Application Data

(62) Division of application No. 29/703,901, filed on Aug. 30, 2019, now Pat. No. Des. 958,753.

(51) **LOC (14) Cl.** **13-03**

(52) **U.S. Cl.**
USPC **D13/139.1**

(58) **Field of Classification Search**
USPC D13/137.1–137.4, 138.1, 138.2,
D13/139.1–139.8, 171, 173, 174, 178,
D13/184, 110

(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,574,260 A * 3/1986 Franks H01H 83/04
335/188

4,872,081 A 10/1989 Murphy et al.

(Continued)

OTHER PUBLICATIONS

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).*

(Continued)

Primary Examiner — Daniel J Domino

Assistant Examiner — Lee D. Starr

(74) *Attorney, Agent, or Firm* — Locke Lord LLP

(57) **CLAIM**

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

DESCRIPTION

FIG. 1 is a front view of a first embodiment of the socket. FIG. 2 is a back view of the first embodiment of the socket. FIG. 3 is a top view of the first embodiment of the socket. FIG. 4 is a bottom view of the first embodiment of the socket.

FIG. 5 is a left view of the first embodiment of the socket.

FIG. 6 is a right view of the first embodiment of the socket.

FIG. 7 is a front perspective view thereof.

FIG. 8 is a back perspective view thereof.

FIG. 9 is a front view of a second embodiment of the socket.

FIG. 10 is a back view of the second embodiment of the socket.

FIG. 11 is a top view of the second embodiment of the socket.

FIG. 12 is a bottom view of the second embodiment of the socket.

FIG. 13 is a left view of the second embodiment of the socket.

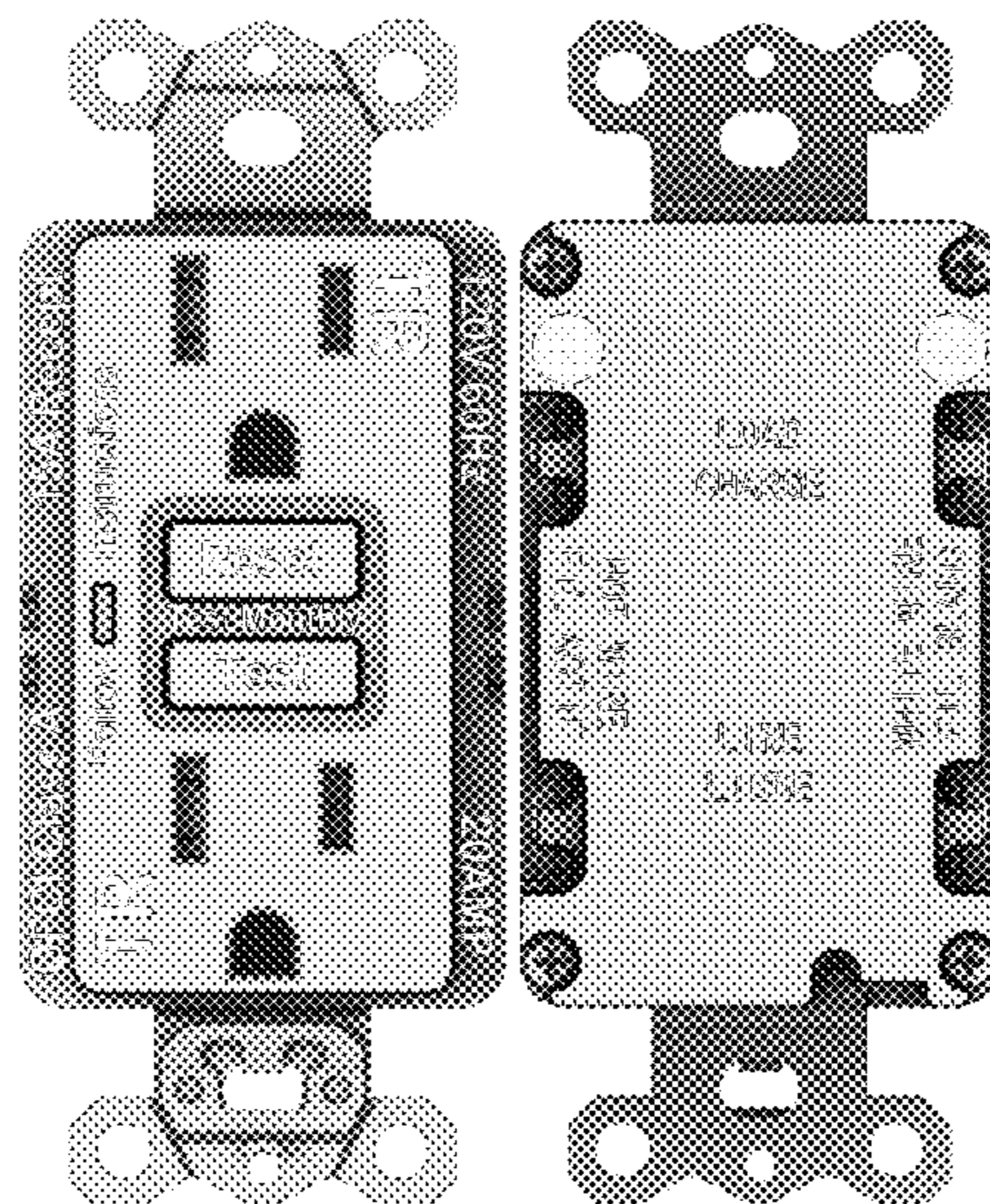
FIG. 14 is a right view of the second embodiment of the socket.

FIG. 15 is a front perspective view thereof; and,

FIG. 16 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.

1 Claim, 14 Drawing Sheets



(58) **Field of Classification Search**

CPC .. H01R 13/639; H01R 13/6392; H01R 13/64;
 H01R 13/642; H01R 13/648; H01R
 13/652; H01R 13/66; H01R 13/6666;
 H01R 13/6683; H01R 13/68; H01R
 13/713; H01R 25/00; H01R 25/003;
 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 73/08; H01H 71/58; H01H
 83/04

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,146,385 A 9/1992 Misencik
 5,510,760 A * 4/1996 Marcou H01R 13/7135
 361/51
 D413,862 S * 9/1999 Huang D13/139.3
 D419,531 S * 1/2000 Keung D13/160
 D430,539 S 9/2000 Leopold et al.
 6,204,449 B1 * 3/2001 Putorti H01R 24/78
 174/53
 6,433,555 B1 8/2002 Leopold et al.
 6,437,700 B1 * 8/2002 Herzfeld H02H 3/335
 361/45
 D462,660 S * 9/2002 Huang D13/139.3
 D470,108 S * 2/2003 Daoxian D13/139.3
 D512,021 S 11/2005 Fort et al.
 D521,932 S 5/2006 Fort et al.
 D532,376 S * 11/2006 Bazayev D13/139.3
 D545,272 S * 6/2007 Zhang D13/139.3
 D598,859 S 8/2009 Vaccaro et al.
 D601,962 S * 10/2009 Song D13/139.6
 D674,753 S * 1/2013 Jansen D13/139.1
 D686,577 S 7/2013 Flagello
 D692,385 S 10/2013 Dodal et al.
 D703,139 S 4/2014 Dodal et al.
 D715,225 S 10/2014 Mininger et al.
 D719,512 S 12/2014 Roy
 D722,562 S 2/2015 Restrepo et al.
 D744,952 S 12/2015 Ni et al.
 D777,673 S 1/2017 Gouhl
 D800,662 S 10/2017 Wu
 9,871,329 B1 1/2018 Lacey et al.
 D813,818 S 3/2018 Ni et al.
 D817,281 S 5/2018 Salas et al.
 D817,884 S 5/2018 Salas et al.
 D817,885 S 5/2018 Salas et al.
 D820,211 S 6/2018 Salas et al.
 D840,349 S 2/2019 Weeks
 D845,245 S 4/2019 Tao
 D851,042 S 6/2019 Pan et al.
 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 D13/139.1
 D887,983 S 6/2020 Altonen et al.
 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.
 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 et al.
 D945,371 S 3/2022 Junko et al.

2003/0016477 A1 * 1/2003 Li H01R 13/7135
 361/42
 2003/0206085 A1 * 11/2003 Germain H01H 83/04
 335/166
 2004/0021996 A1 * 2/2004 Wu H01H 83/04
 361/42
 2004/0070474 A1 4/2004 Wu et al.
 2004/0252425 A1 * 12/2004 Baldwin H02H 3/335
 361/42
 2005/0212646 A1 9/2005 Watchom
 2005/0264383 A1 * 12/2005 Zhang H01R 24/78
 335/18
 2006/0028316 A1 2/2006 Fabian et al.
 2006/0044086 A1 * 3/2006 Wang H01H 83/04
 335/18
 2007/0035898 A1 2/2007 Baldwin et al.
 2007/0211397 A1 * 9/2007 Sokolow H01R 13/4534
 361/42
 2007/0268635 A1 * 11/2007 Bonasia H01H 83/04
 361/42
 2008/0112099 A1 * 5/2008 Li H01H 83/04
 361/42
 2009/0086389 A1 * 4/2009 Huang H01H 83/04
 361/45
 2009/0227130 A1 * 9/2009 Carbone H01R 13/4534
 439/137
 2009/0256661 A1 * 10/2009 Li H01R 13/7135
 361/42
 2010/0226053 A1 * 9/2010 Kamor H01H 83/04
 324/415
 2011/0011714 A1 * 1/2011 Gao H01H 71/58
 200/405
 2011/0104918 A1 * 5/2011 Chen H01R 13/4534
 439/136
 2011/0104919 A1 5/2011 Patel et al.
 2013/0184890 A1 7/2013 Li et al.
 2013/0260613 A1 10/2013 Misener
 2014/0321006 A1 * 10/2014 Huang H01R 25/006
 361/49
 2015/0333498 A1 * 11/2015 Weeks H01H 83/04
 324/509
 2018/0061605 A1 * 3/2018 Huang H01R 13/652
 2019/0097364 A1 * 3/2019 Mortun H01R 13/6683
 2022/0020551 A1 * 1/2022 Chen H01H 83/04

OTHER PUBLICATIONS

Mlcmi 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).*

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).

(56)

References Cited

OTHER PUBLICATIONS

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).

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).

Topgreen ER 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).

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/Embrighten-55256-Receptacle-Assistant-Tamper-Resistant/dp/B07361JZ2H> <<https://www.amazon.com/Embrighten-55256-Receptacle-Assistant-Tamper-Resistant/dp/B07361J72H>> Year: 2017).

Leviton DW15R-1 BW 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



FIG. 1

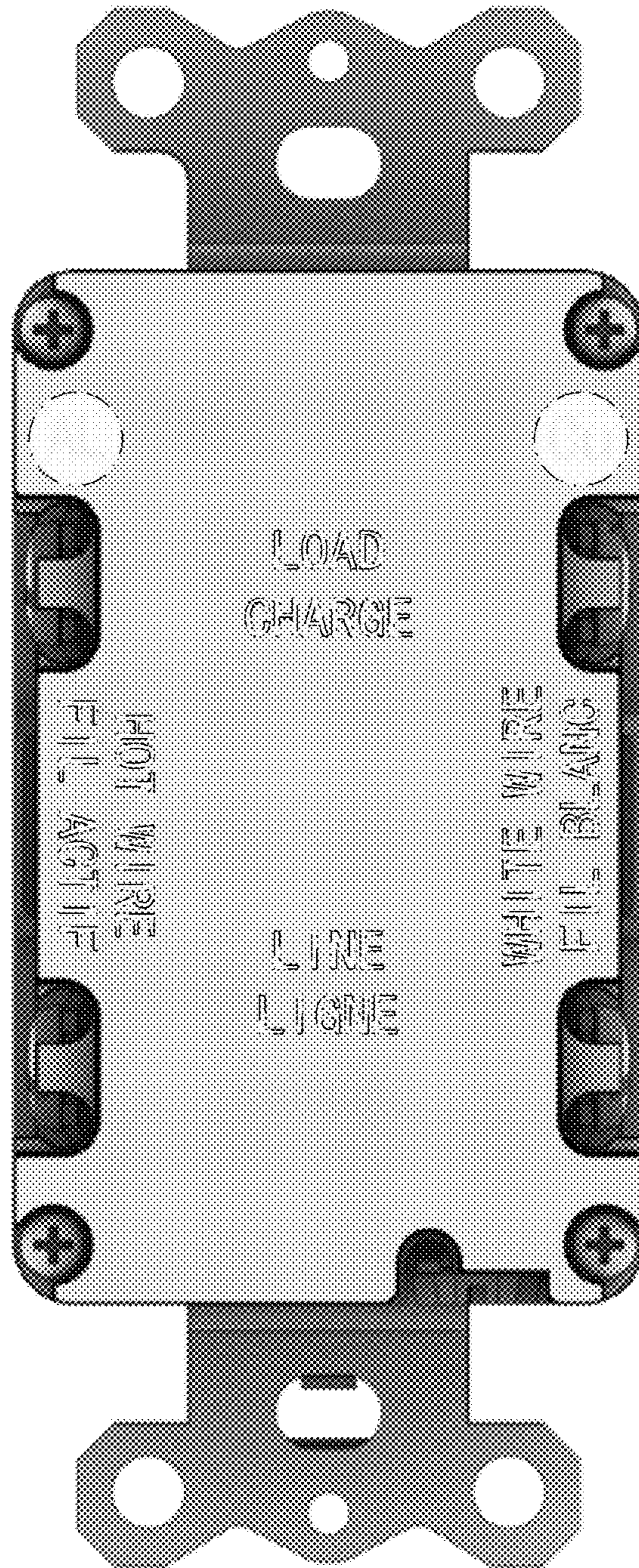


FIG. 2

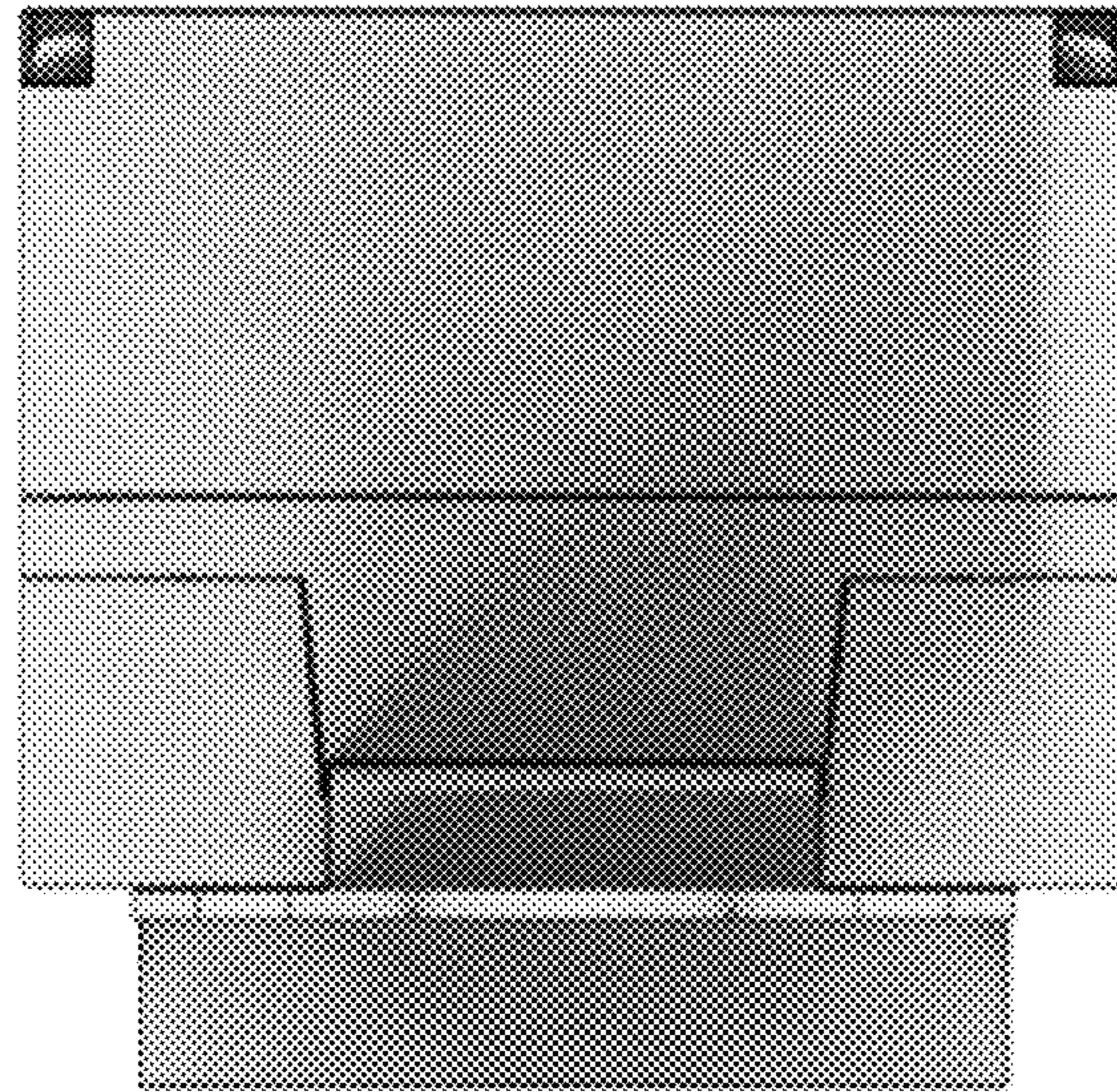


FIG. 3

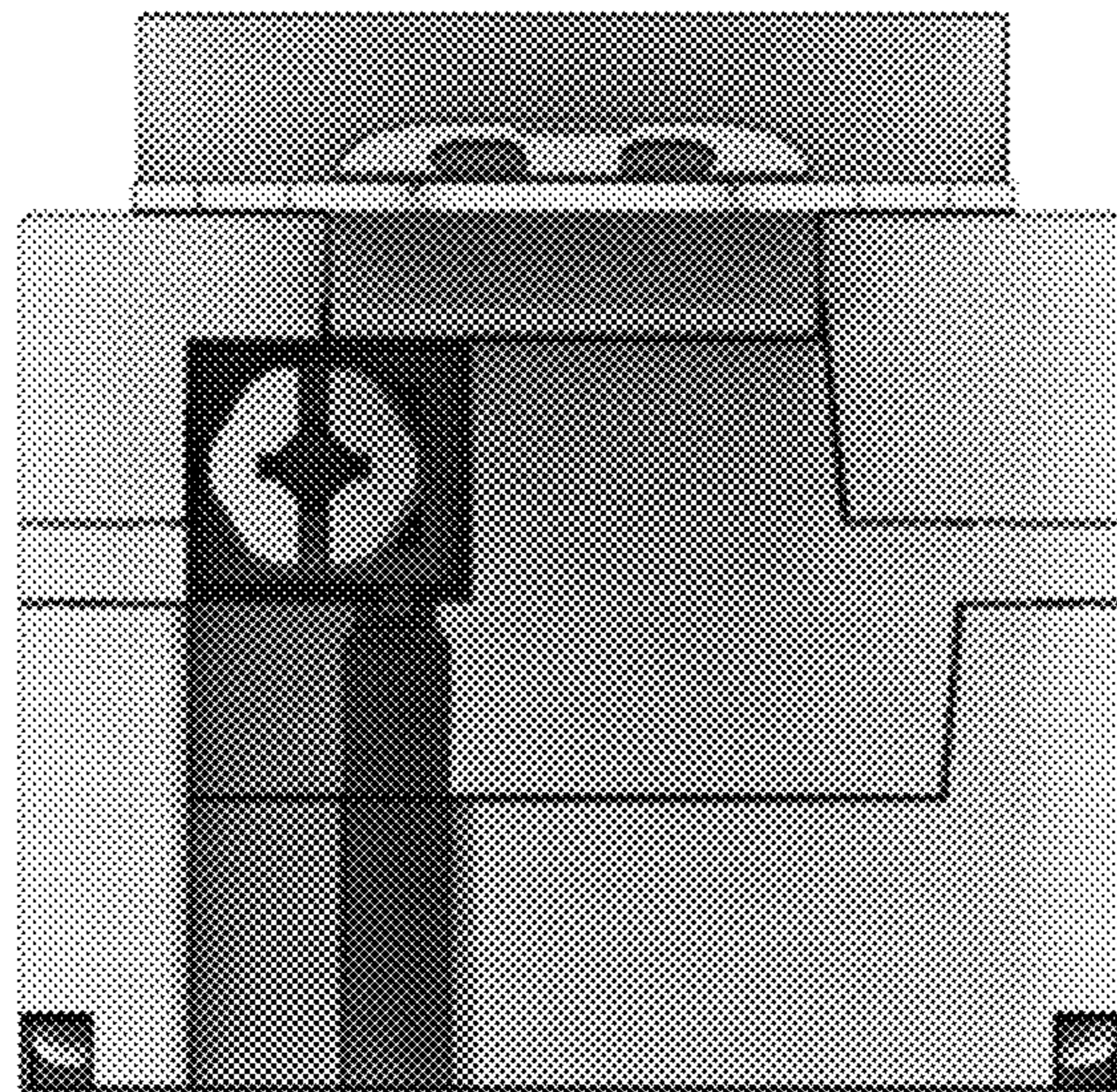


FIG. 4

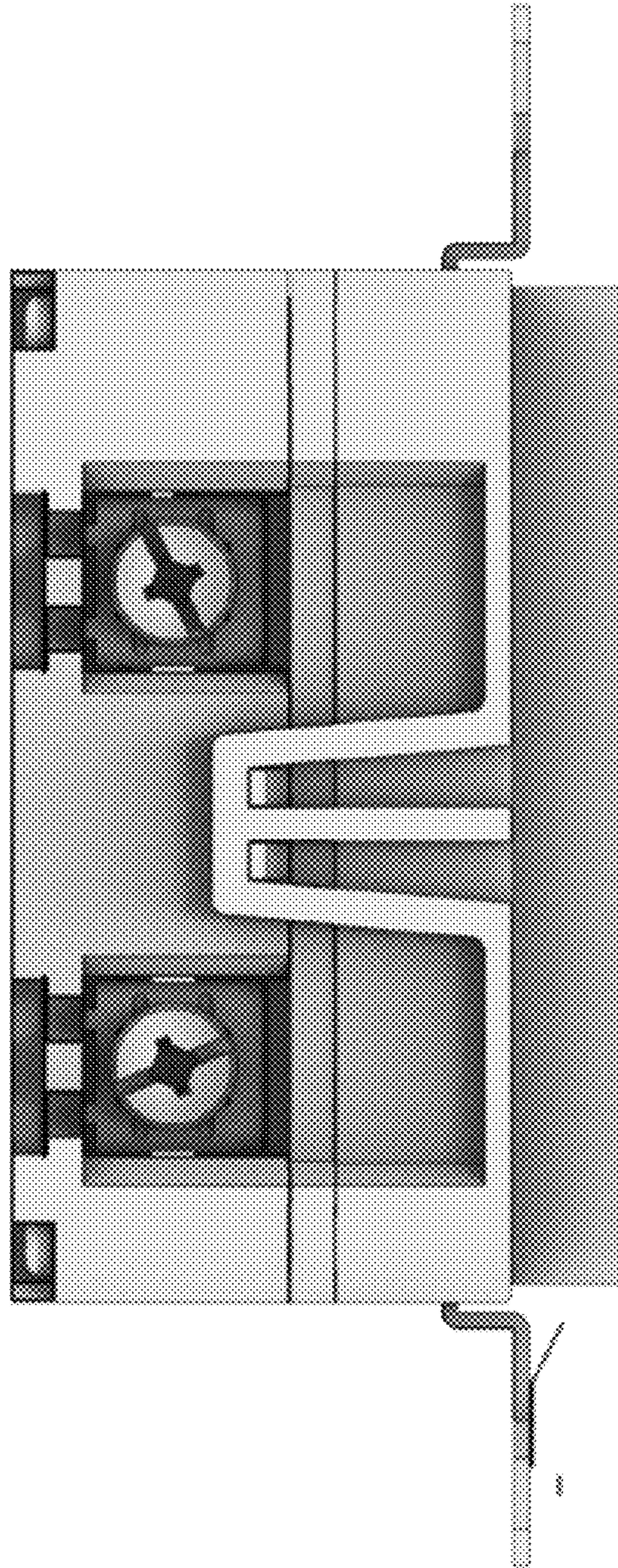


FIG. 5

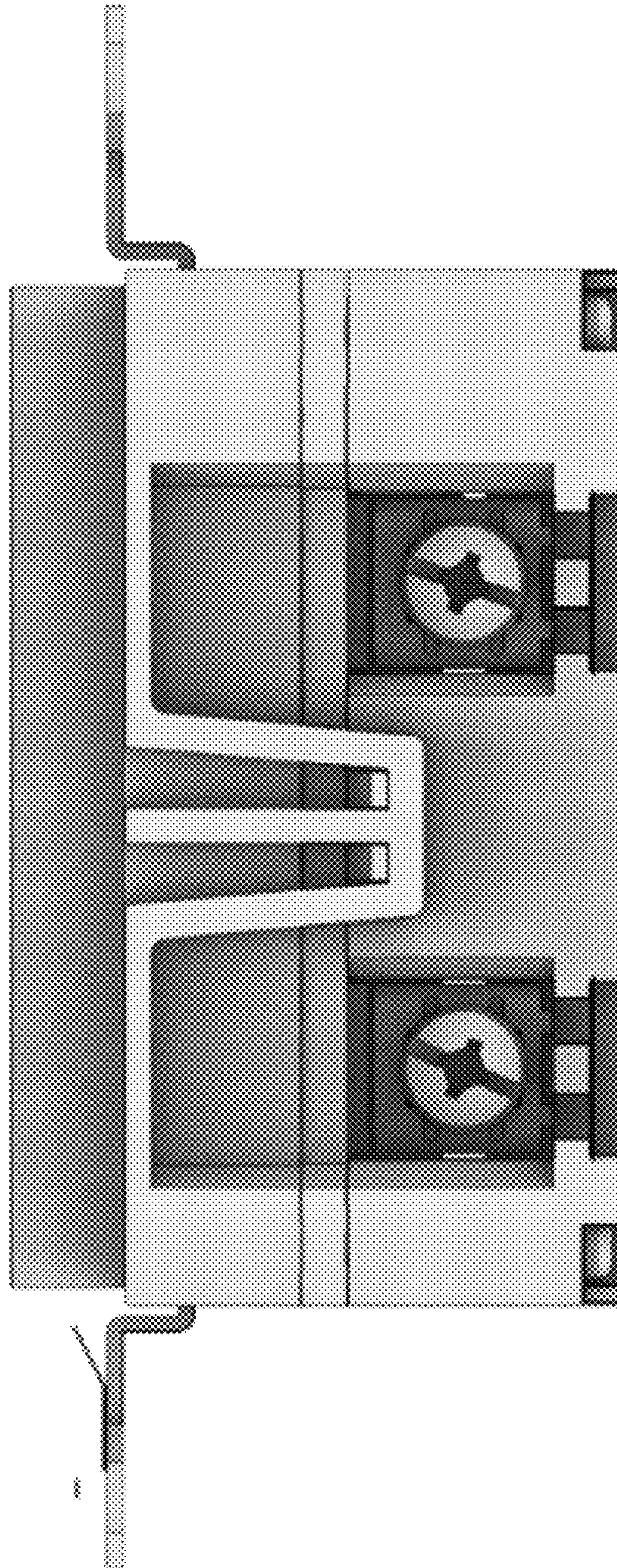


FIG. 6

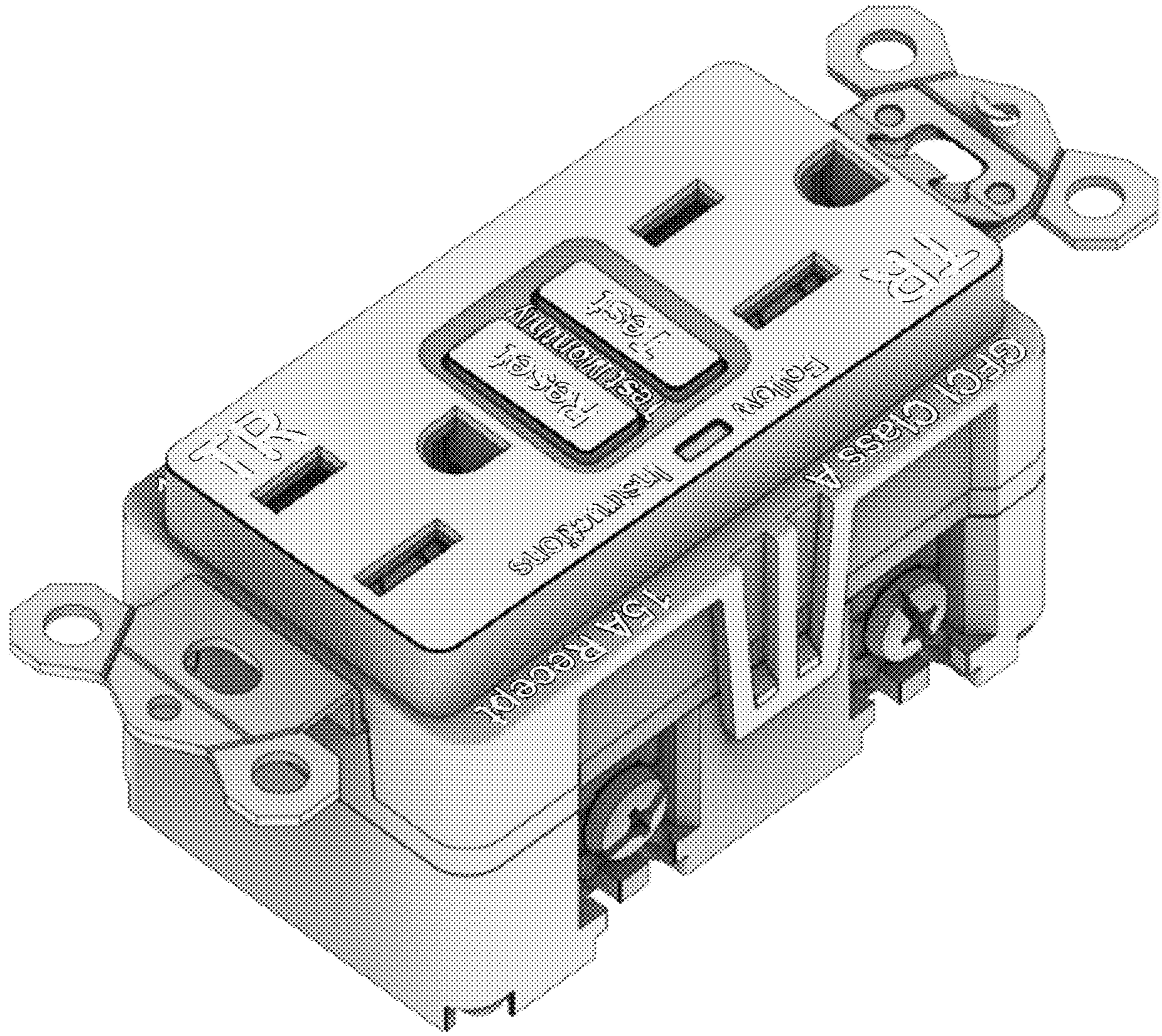


FIG. 7

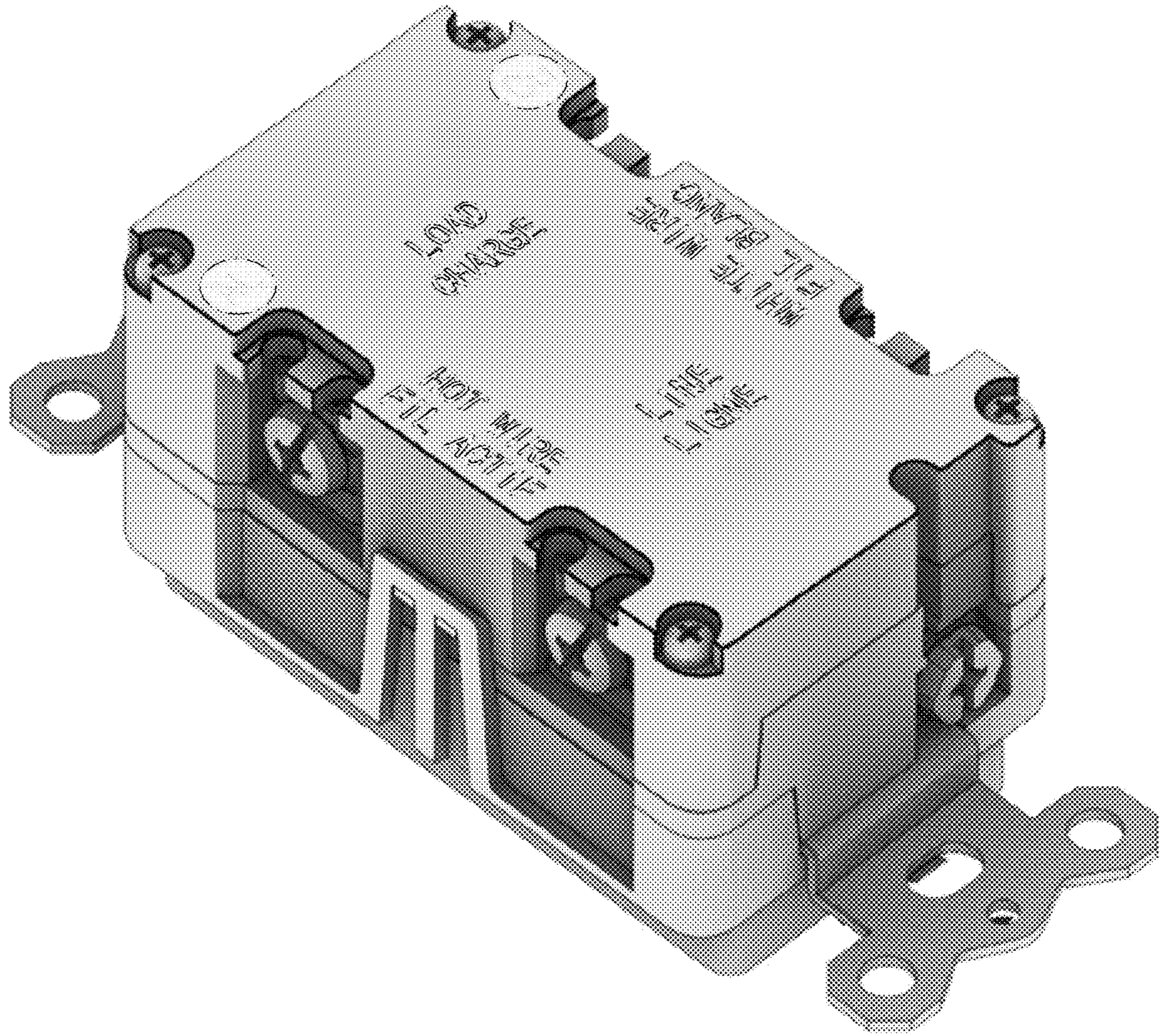


FIG. 8



FIG. 9

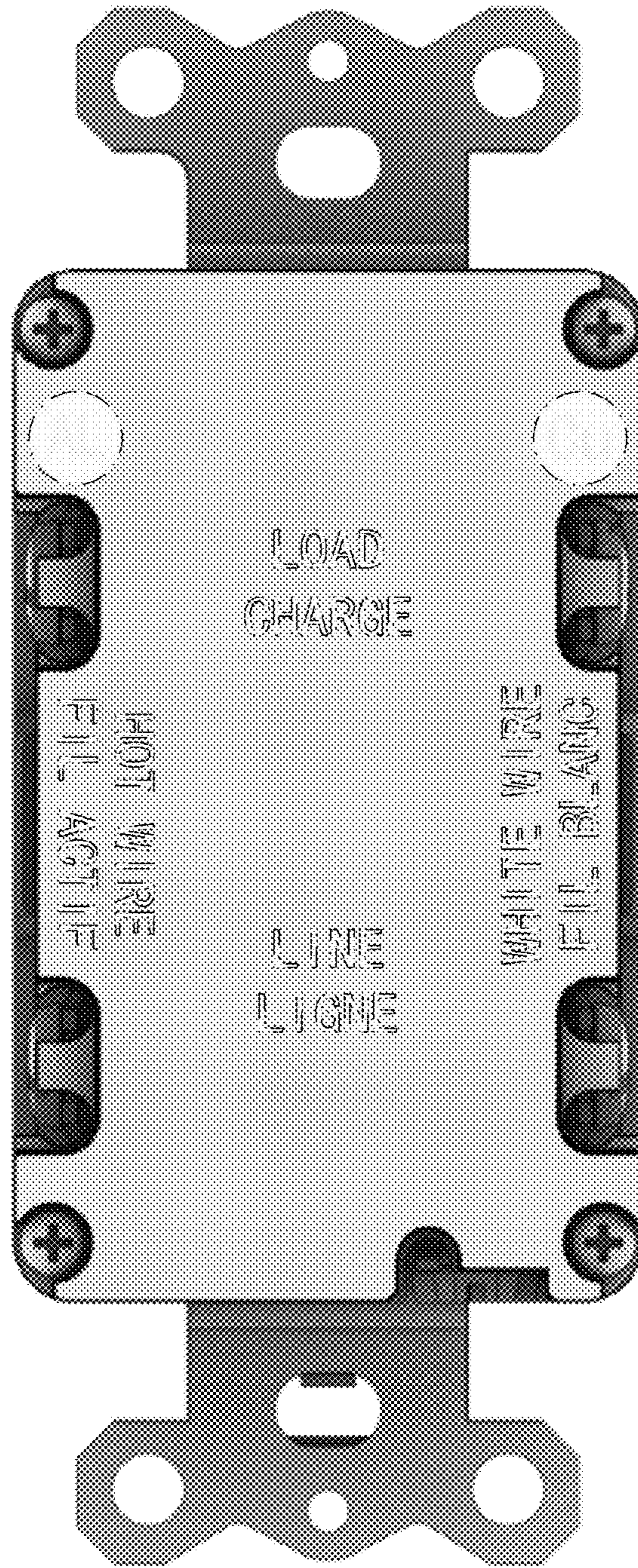


FIG. 10

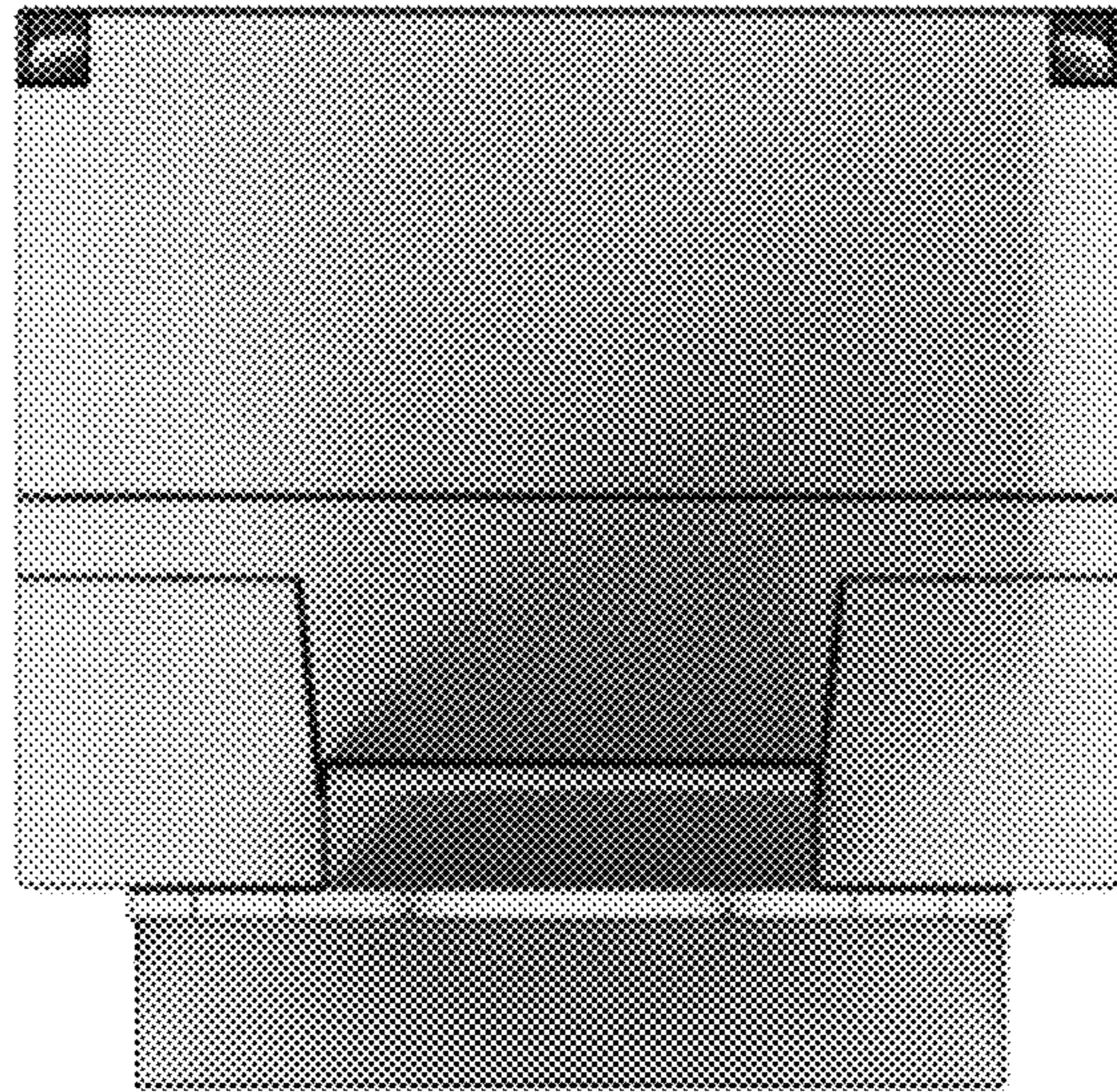


FIG. 11

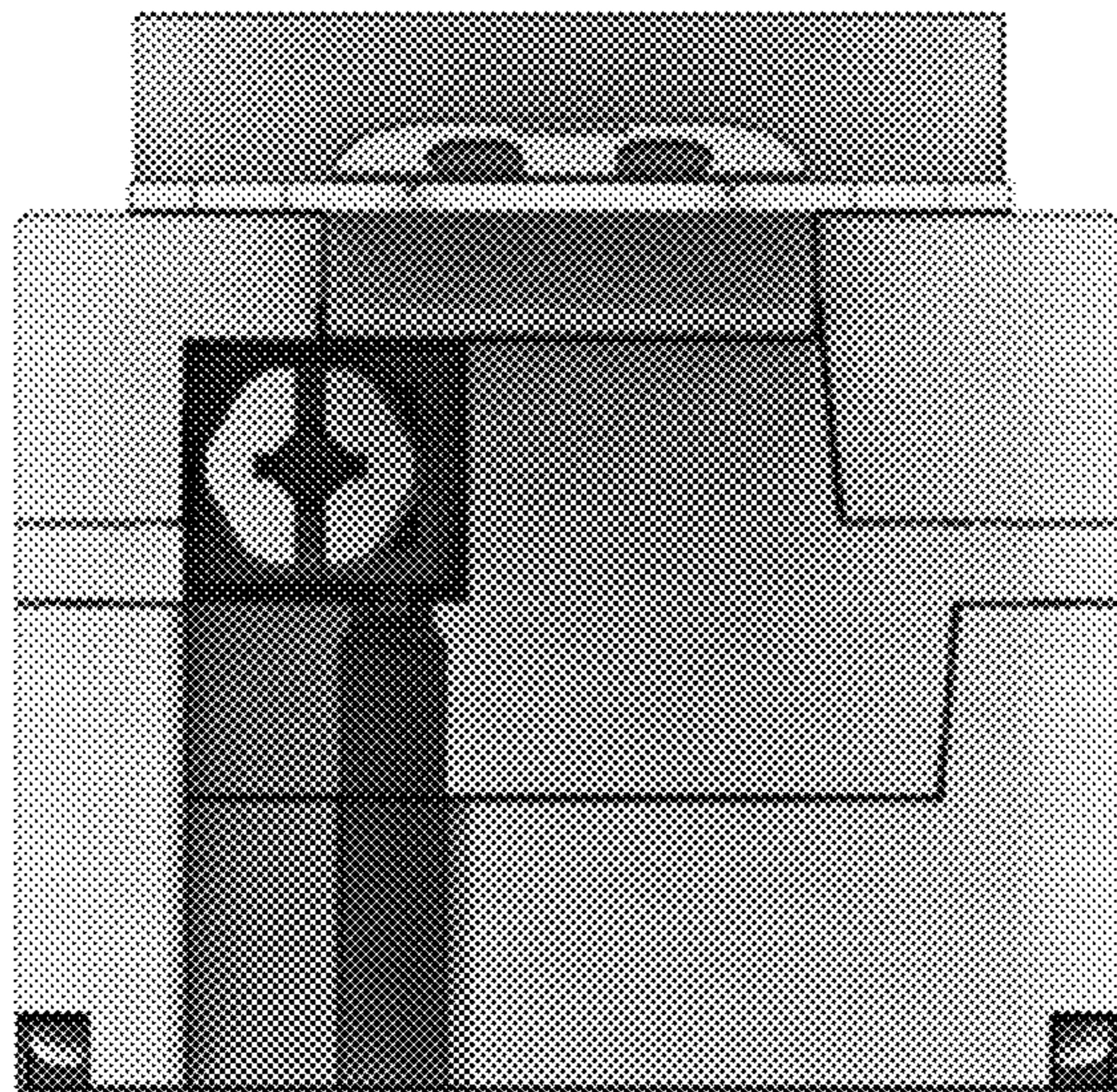


FIG. 12

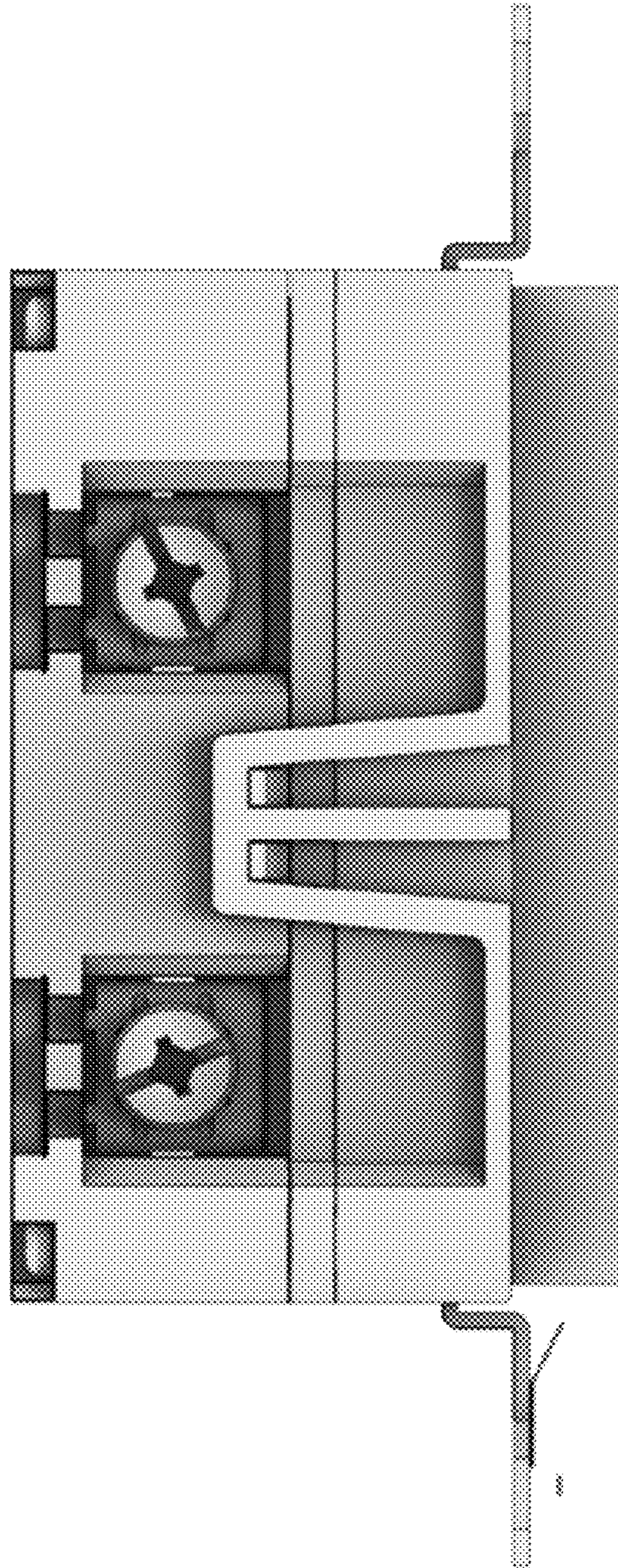


FIG. 13

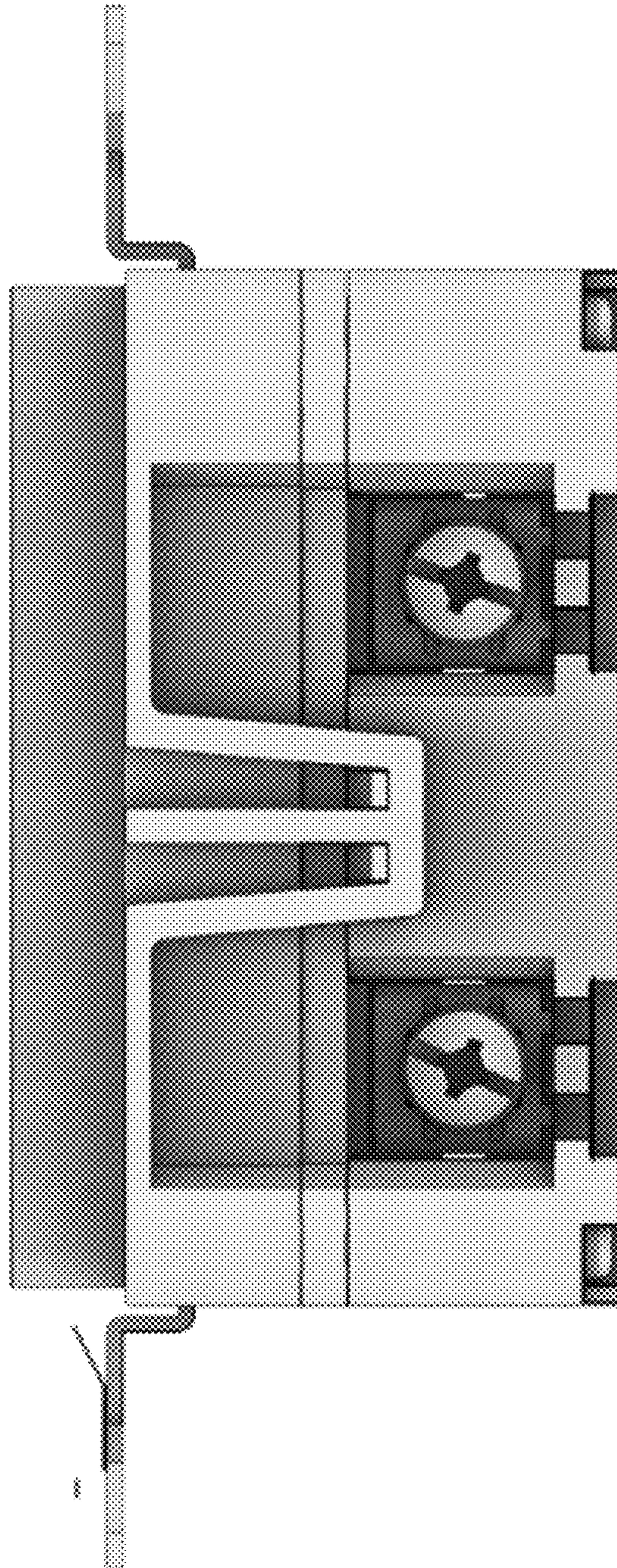


FIG. 14

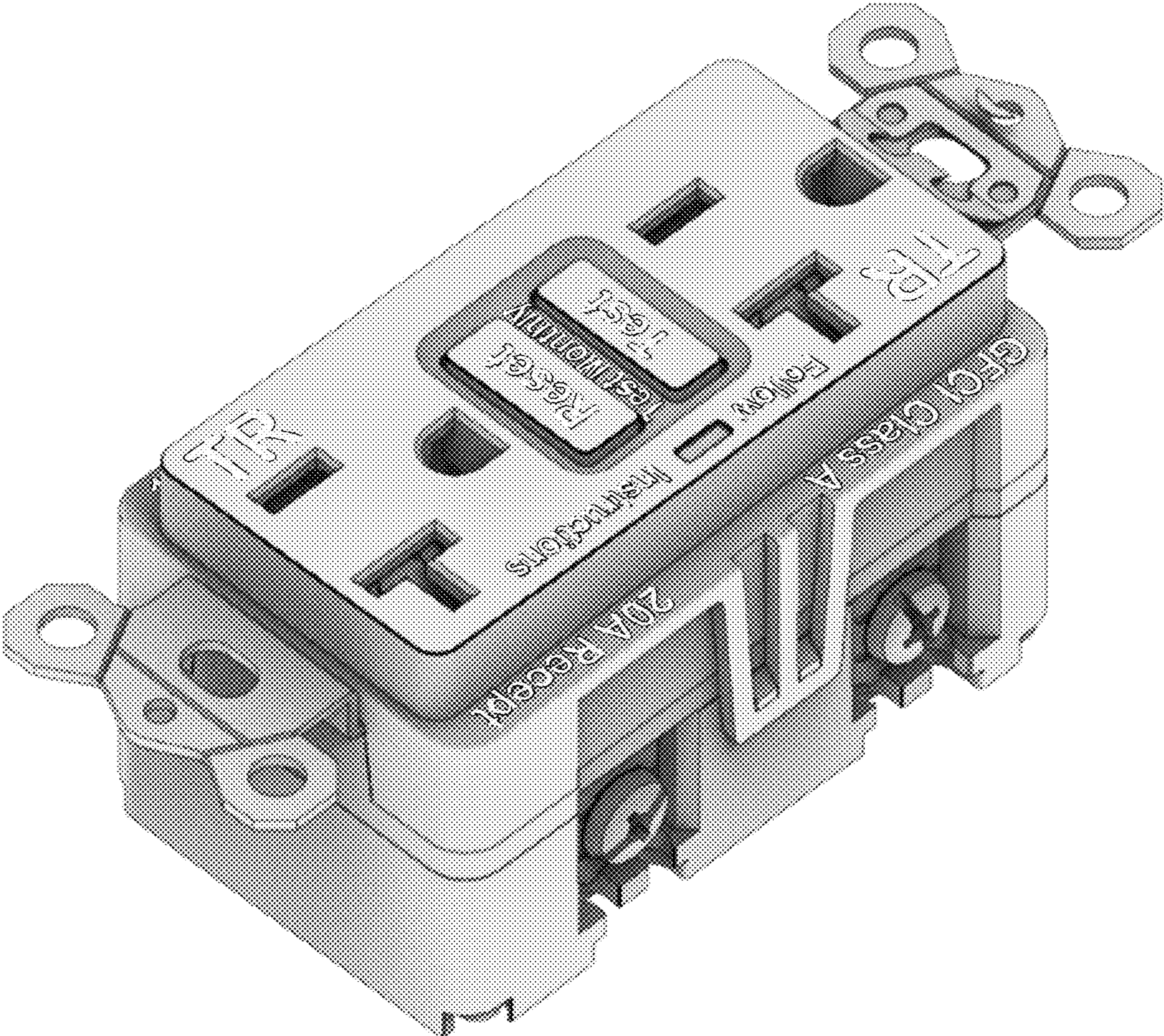


FIG. 15

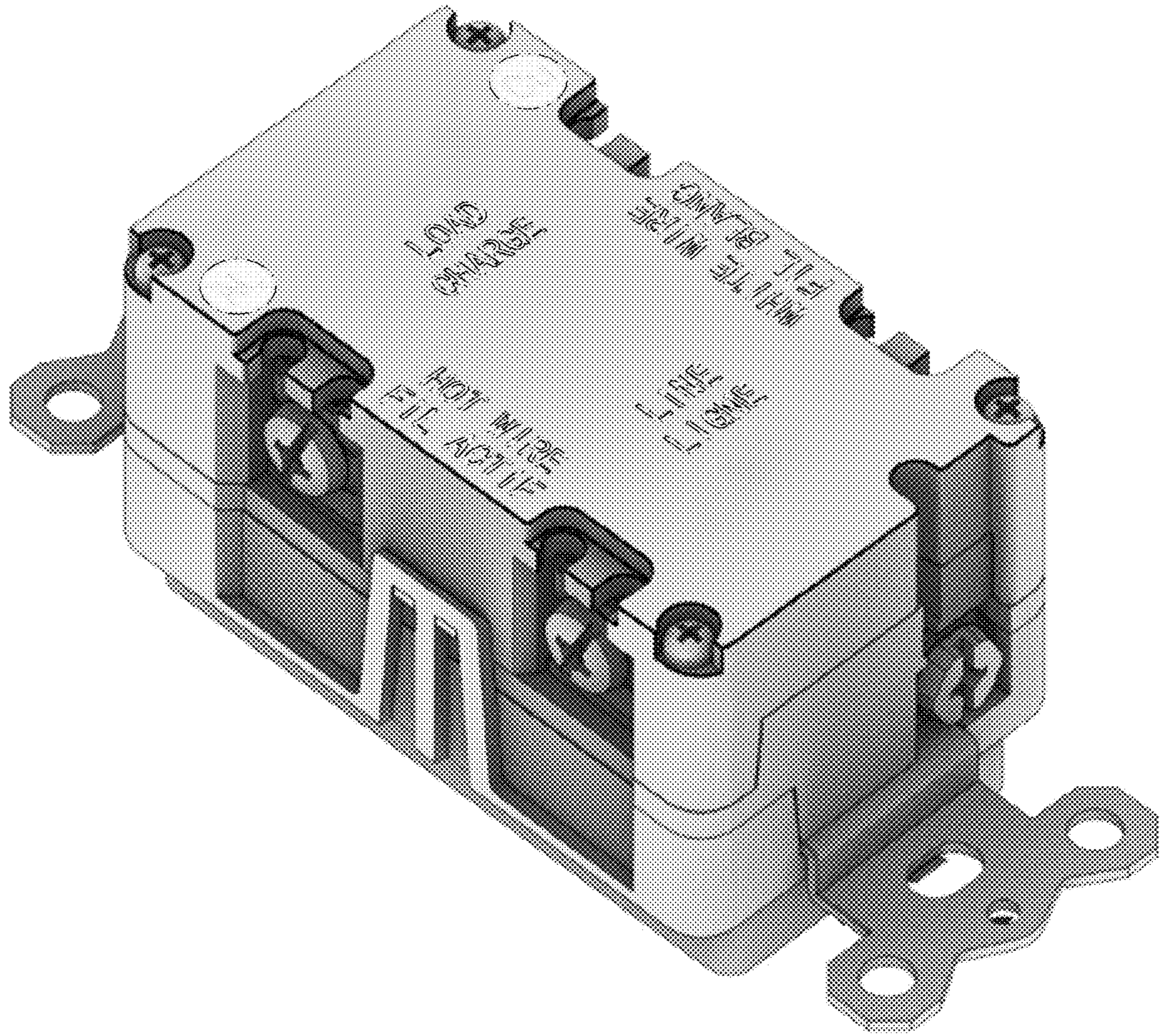


FIG. 16