



US00D951179S

(12) **United States Design Patent** (10) **Patent No.:** **US D951,179 S**
Mackler (45) **Date of Patent:** **** May 10, 2022**

(54) **SOLAR CANOPY**

(71) Applicant: **SunPower Corporation**, San Jose, CA (US)

(72) Inventor: **Laurence Mackler**, Larchmont, NY (US)

(73) Assignee: **SunPower Corporation**, San Jose, CA (US)

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

(21) Appl. No.: **29/758,441**

(22) Filed: **Nov. 16, 2020**

Related U.S. Application Data

(63) Continuation of application No. 15/370,729, filed on Dec. 6, 2016, now Pat. No. 10,848,095, which is a continuation of application No. 14/886,848, filed on Oct. 19, 2015, now Pat. No. 9,548,695, which is a continuation of application No. 12/497,461, filed on Jul. 2, 2009, now Pat. No. 9,202,396.

(60) Provisional application No. 61/077,851, filed on Jul. 2, 2008.

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

(52) **U.S. Cl.**
USPC **D13/102**

(58) **Field of Classification Search**
USPC D13/101, 102, 110, 118, 184, 199;
D12/401

CPC H01L 31/02; H01L 31/18; H01L 31/042;
H01L 31/048; H01L 31/0525; H01L
31/0203; H01L 31/02008; H01L 31/0504;
H01L 31/02013; H01L 27/142; H01L
27/1421; Y02E 10/40; Y02E 10/47; Y02E
10/50; Y02E 10/52; Y02E 10/54; Y02E
10/542; Y02E 10/544; H02S 30/10; H02S
40/34; H02S 40/44; H02J 7/0042

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D192,723 S * 5/1962 Lane D25/56
D225,051 S * 11/1972 Smithhart D25/56
4,132,074 A 1/1979 Wendel
4,149,523 A 4/1979 Boy-Marcotte et al.
4,245,895 A 1/1981 Wildenrotter

(Continued)

FOREIGN PATENT DOCUMENTS

GB 859138 A 1/1961
WO WO/1997/036132 10/1997

OTHER PUBLICATIONS

Summons to Attend Oral Proceedings Pursuant to Rule 115(1) EPC issued Jun. 15, 2021 in European Application No. 09774573.1.

(Continued)

Primary Examiner — Derrick E Holland

(74) *Attorney, Agent, or Firm* — Oblon, McClelland, Maier & Neustadt, L.L.P.

(57) **CLAIM**

The ornamental design for a solar canopy, as shown and described.

DESCRIPTION

FIG. 1 is a front, top, and left side perspective view of a solar canopy showing the new design.

FIG. 2 is a rear, bottom, and right side perspective view thereof.

FIG. 3 is a rear elevational view thereof.

FIG. 4 is a front elevational view thereof.

FIG. 5 is a right side elevational view thereof.

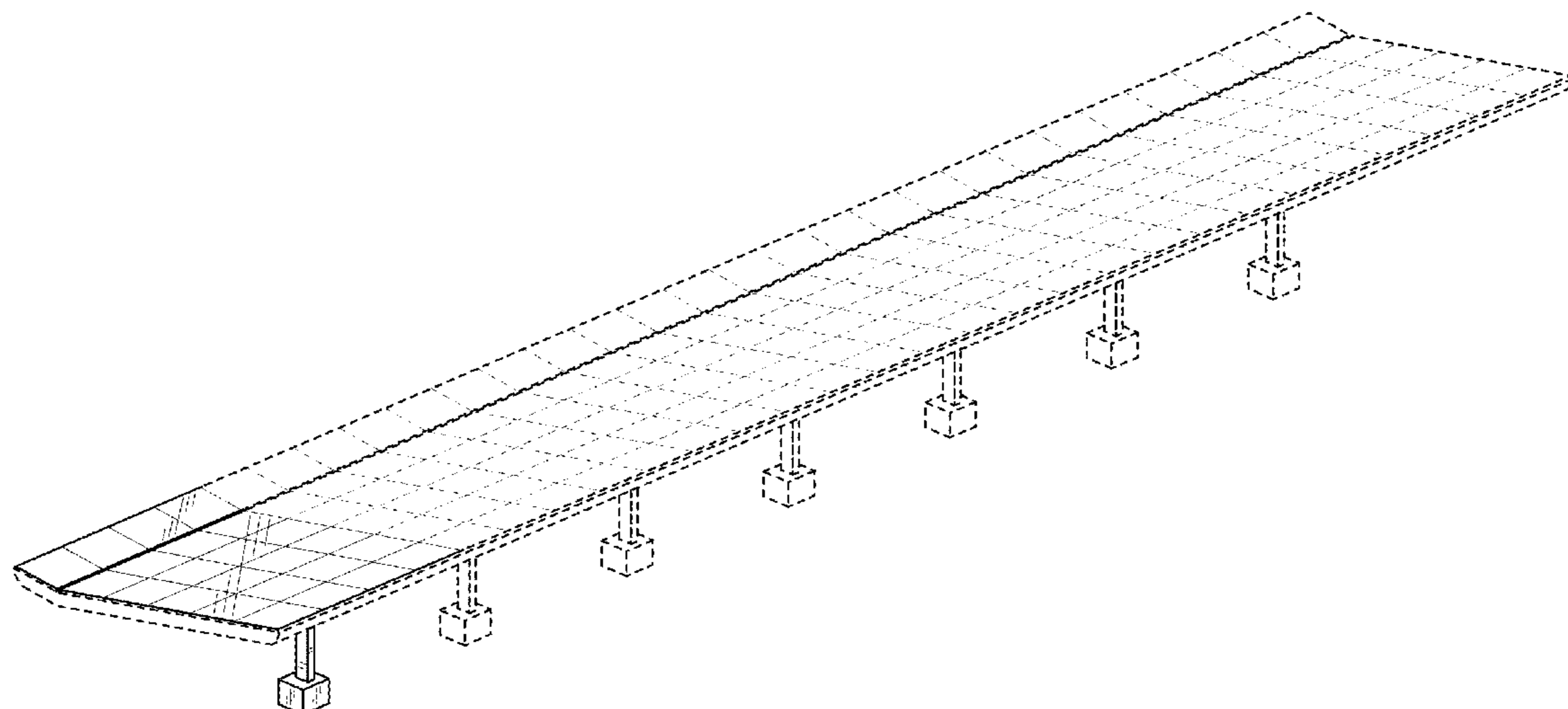
FIG. 6 is a left side elevational view thereof.

FIG. 7 is a top plan view thereof; and,

FIG. 8 is a bottom plan view thereof.

The broken lines depict portions of the solar canopy that form no part of the claimed design.

1 Claim, 5 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

4,281,369 A 7/1981 Batte
 4,319,310 A 3/1982 Kingsley
 4,384,317 A 5/1983 Stackpole
 4,429,178 A 1/1984 Prideaux et al.
 4,432,341 A 2/1984 Howe et al.
 4,453,327 A 6/1984 Clarke
 4,484,104 A 11/1984 O'Brien
 4,611,090 A 9/1986 Catella et al.
 4,636,577 A 1/1987 Peterpaul
 4,649,899 A 3/1987 Moore
 4,668,120 A 5/1987 Roberts
 4,742,291 A 5/1988 Bobier et al.
 4,832,001 A 5/1989 Baer
 4,835,918 A 6/1989 Dippel
 4,841,278 A 6/1989 Tezuka et al.
 4,867,133 A 9/1989 Sadler
 4,966,631 A 10/1990 Matlin et al.
 4,989,124 A 1/1991 Shappell
 5,022,929 A 6/1991 Gallois-Montbrun
 5,228,924 A 7/1993 Barker et al.
 D353,129 S 12/1994 Ricaud et al.
 5,612,741 A 3/1997 Loban et al.
 5,807,440 A 9/1998 Kubota et al.
 D408,554 S 4/1999 Dinwoodie
 5,900,850 A 5/1999 Bailey et al.
 6,046,401 A 4/2000 McCabe
 6,049,035 A 4/2000 Tsuru et al.
 D425,013 S 5/2000 Lai
 6,111,189 A 8/2000 Garvison et al.
 6,260,319 B1 7/2001 Colomban
 6,263,601 B1 7/2001 Emert
 D452,328 S 12/2001 O'Brien
 D456,085 S 4/2002 O'Brien
 6,396,239 B1 5/2002 Benn et al.
 6,436,283 B1 8/2002 Duke
 6,455,767 B1 9/2002 Muller
 6,495,750 B1 12/2002 Dinwoodie
 6,518,493 B1 2/2003 Murakami et al.
 6,572,173 B2 6/2003 Muller
 6,590,363 B2 * 7/2003 Teramoto F03G 6/001
 320/101
 6,631,591 B1 10/2003 Durham
 6,722,357 B2 * 4/2004 Shingleton H02S 20/23
 126/600
 6,784,357 B1 8/2004 Wang
 D505,113 S 5/2005 Lam
 6,930,237 B2 8/2005 Mattiuzzo
 D511,576 S * 11/2005 Shingleton D25/56
 D535,584 S 1/2007 Garrett
 7,227,078 B2 6/2007 Jongerden et al.
 7,237,360 B2 7/2007 Moncho et al.
 D564,443 S 3/2008 Moore
 D565,505 S 4/2008 Shugar et al.
 D571,716 S 6/2008 Anderson
 7,381,886 B1 6/2008 Aiken
 D584,223 S 1/2009 Cooper
 7,501,713 B2 3/2009 Fein et al.
 7,531,741 B1 * 5/2009 Melton F24S 30/425
 136/246
 8,104,203 B2 1/2012 Mackler

2004/0065025 A1 4/2004 Durham
 2005/0035244 A1 2/2005 Conger
 2005/0045224 A1 3/2005 Lyden
 2005/0045244 A1 3/2005 Hartness et al.
 2005/0091616 A1 5/2005 Faris
 2005/0109384 A1 5/2005 Shingleton
 2005/0241246 A1 11/2005 Sinha et al.
 2006/0011194 A1 1/2006 Hensley et al.
 2006/0090858 A1 5/2006 Heidenreich
 2006/0101683 A1 5/2006 Baker
 2006/0207192 A1 9/2006 Durham
 2006/0225776 A1 10/2006 Nemazi et al.
 2007/0212935 A1 9/2007 Lenox
 2008/0216418 A1 9/2008 Durham
 2008/0308091 A1 12/2008 Corio
 2009/0038672 A1 2/2009 Conger
 2009/0050194 A1 2/2009 Noble et al.

OTHER PUBLICATIONS

Office Action dated Feb. 26, 2019 in European Patent Application No. 09884583.1, 8 pages.
 Office Action dated Feb. 14, 2018 in European Patent Application No. 09774573.1, 9 pages.
 Examination Report dated Sep. 15, 2016 in Australian Patent Application No. 2015258330.
 International Patent Application No. PCT/US2009/049595, filed Jul. 2, 2009.
 Dictionary.com, "Azimuth", last updated Aug. 9, 2013, pp. 1-3, available at: <http://dictionary.reference.com/browse/azimuth>.
 Heavens Above, "Azimuth" last updated Aug. 9, 2013, pp. 1, available at: <http://www.heavens-above.com/glossary.aspx?term=azimuth>.
 International Patent Application No. PCT/US2009/049625, filed Jul. 2, 2009.
 International Preliminary Report on Patentability dated Jul. 2, 2009 in International Patent Application No. PCT/US2009/049625.
 International Search Report and the Written Opinion of the International Searching Authority dated Jul. 2, 2009 in International Patent Application No. PCT/US2009/049595.
 International Search Report and Written Opinion of the International Searching Authority dated Jul. 2, 2009 for International Patent Application No. PCT/US2009/049625.
 Merriam-Webster, "Azimuth", last updated Aug. 12, 2013, pp. 1-3, available at: <http://merriam-webster.com/dictionary/azimuth>.
 Office Action dated Feb. 12, 2015 in U.S. Appl. No. 12/497,461.
 Office Action dated Apr. 23, 2014 in U.S. Appl. No. 12/497,461.
 Office Action dated May 1, 2015 in C.A. Patent Application No. 2,732,848.
 Office Action dated Jun. 5, 2012 in U.S. Appl. No. 12/497,461.
 Office Action dated Oct. 26, 2011 in U.S. Appl. No. 12/497,461.
 Office Action dated Nov. 26, 2014 in Australian Patent Application No. 2009266797.
 Oxford Dictionary, "Azimuth", last updated Aug. 12, 2013, pp. 1-2, available at: http://oxforddictionaries.com/us/definition/american_english/azimuth.
 Wikipedia, "Azimuth" last updated Aug. 9, 2013, pp. 1, available at: <http://en.wikipedia.org/wiki/Azimuth>.

* cited by examiner

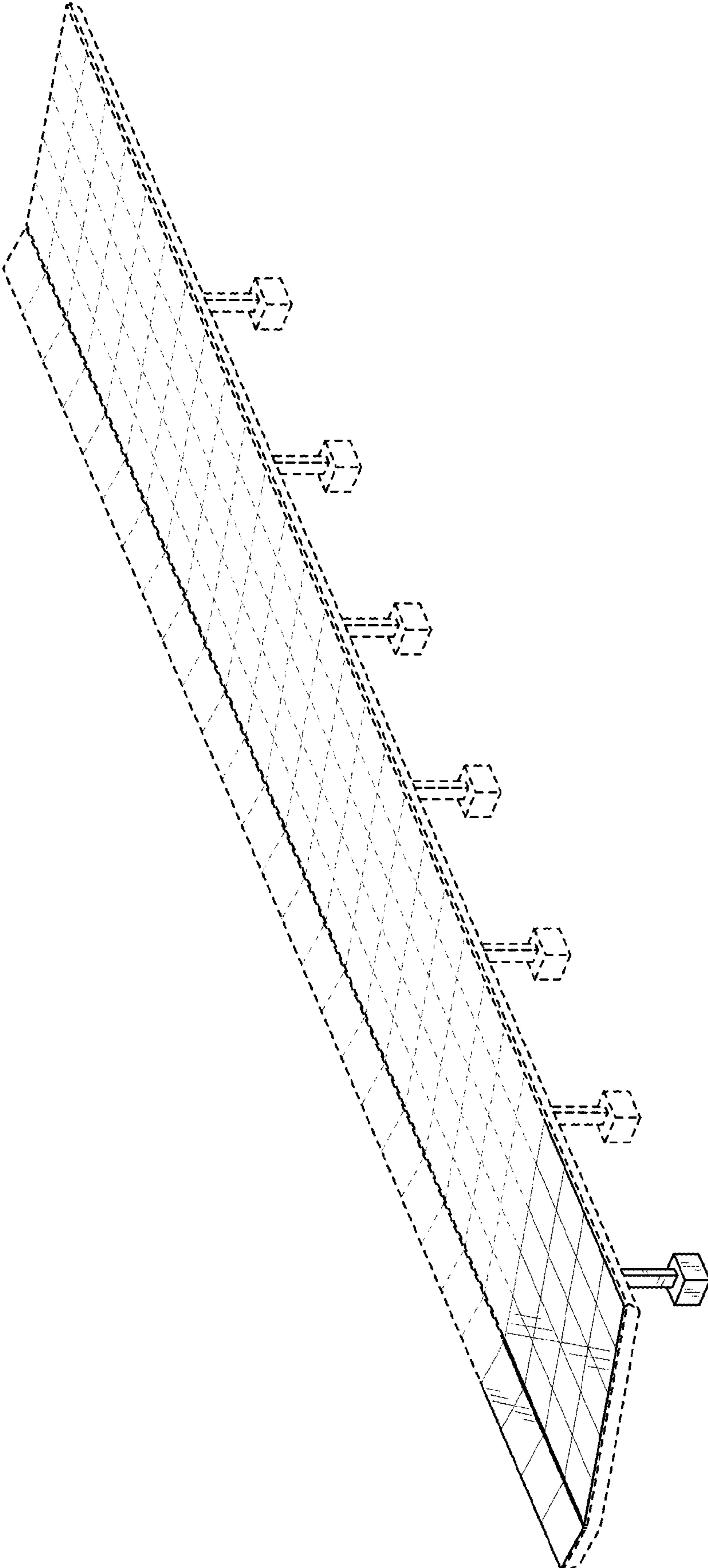


FIG. 1

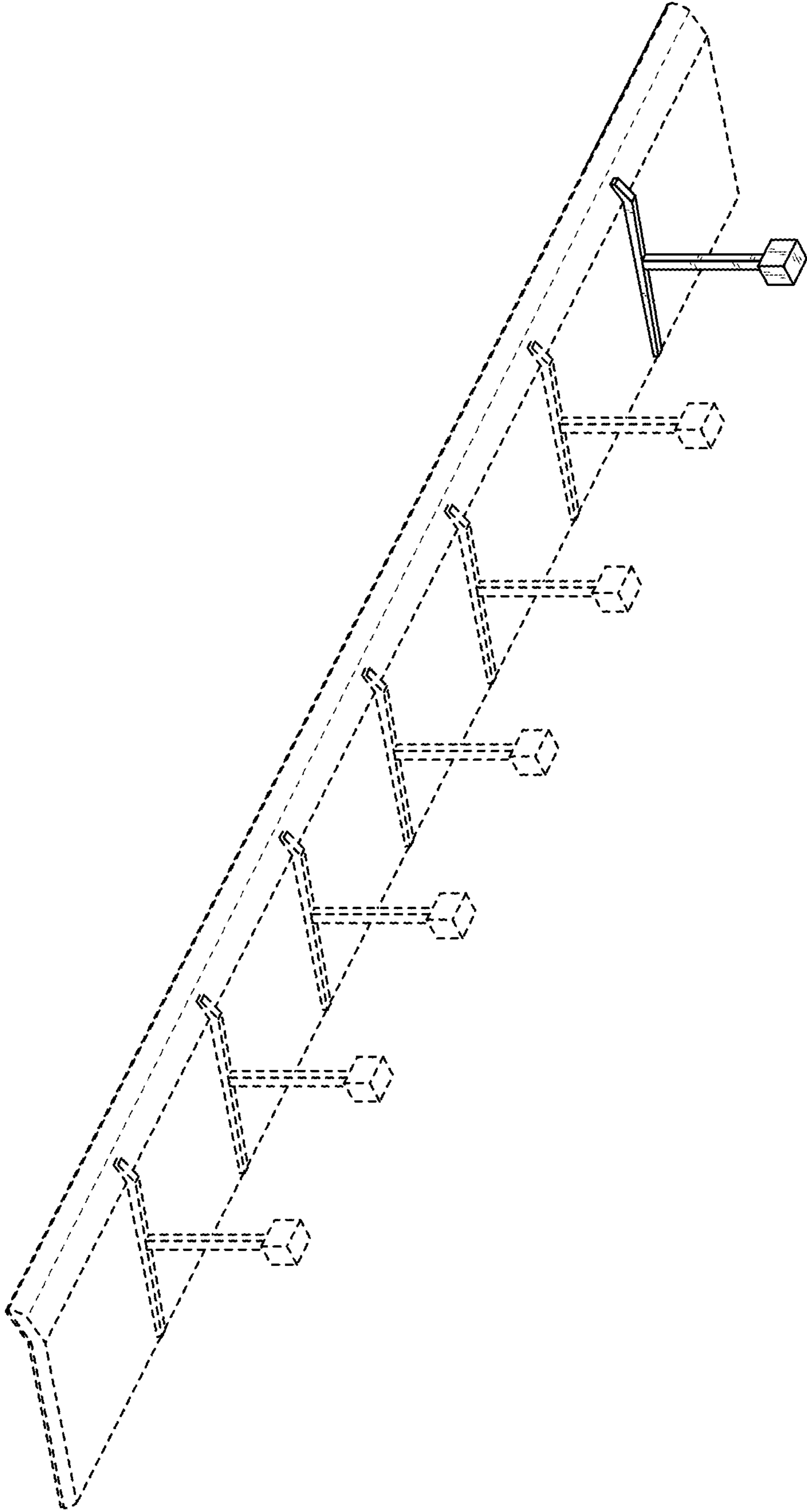


FIG. 2

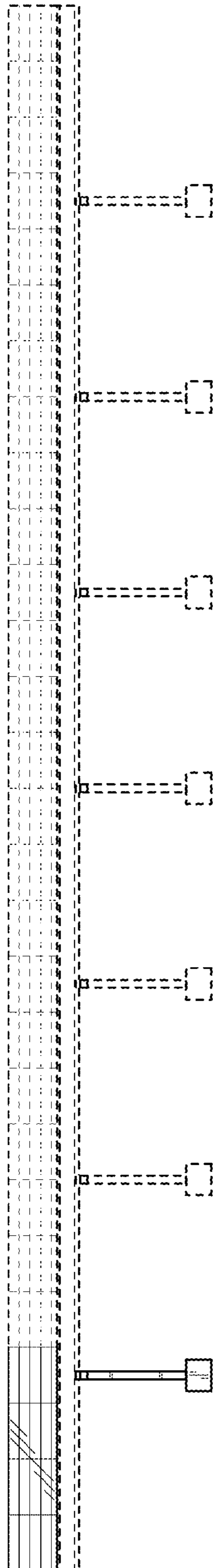


FIG. 3

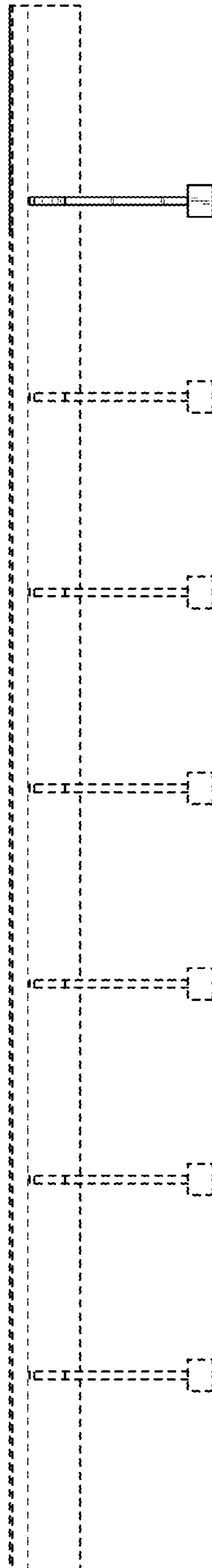


FIG. 4

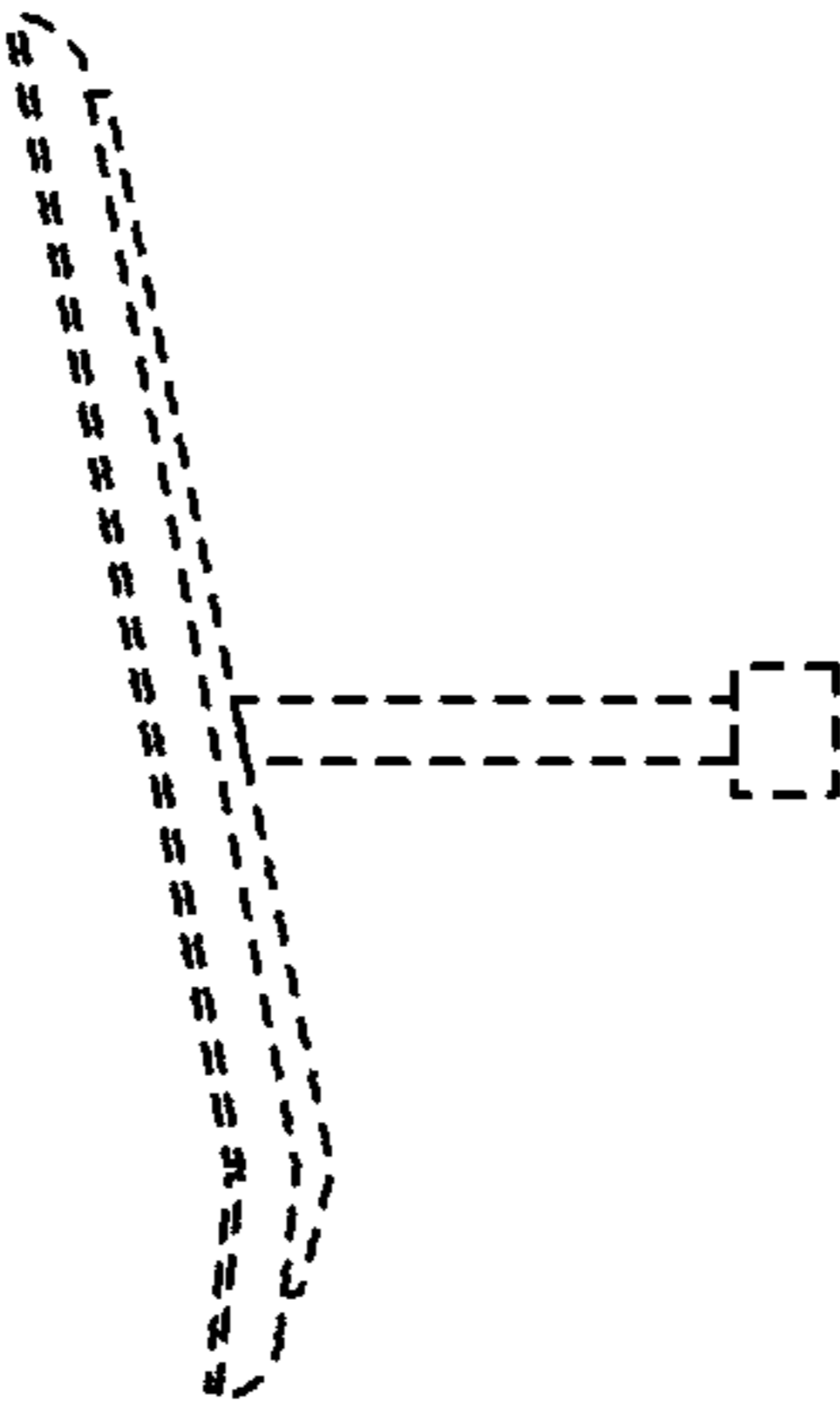


FIG. 6

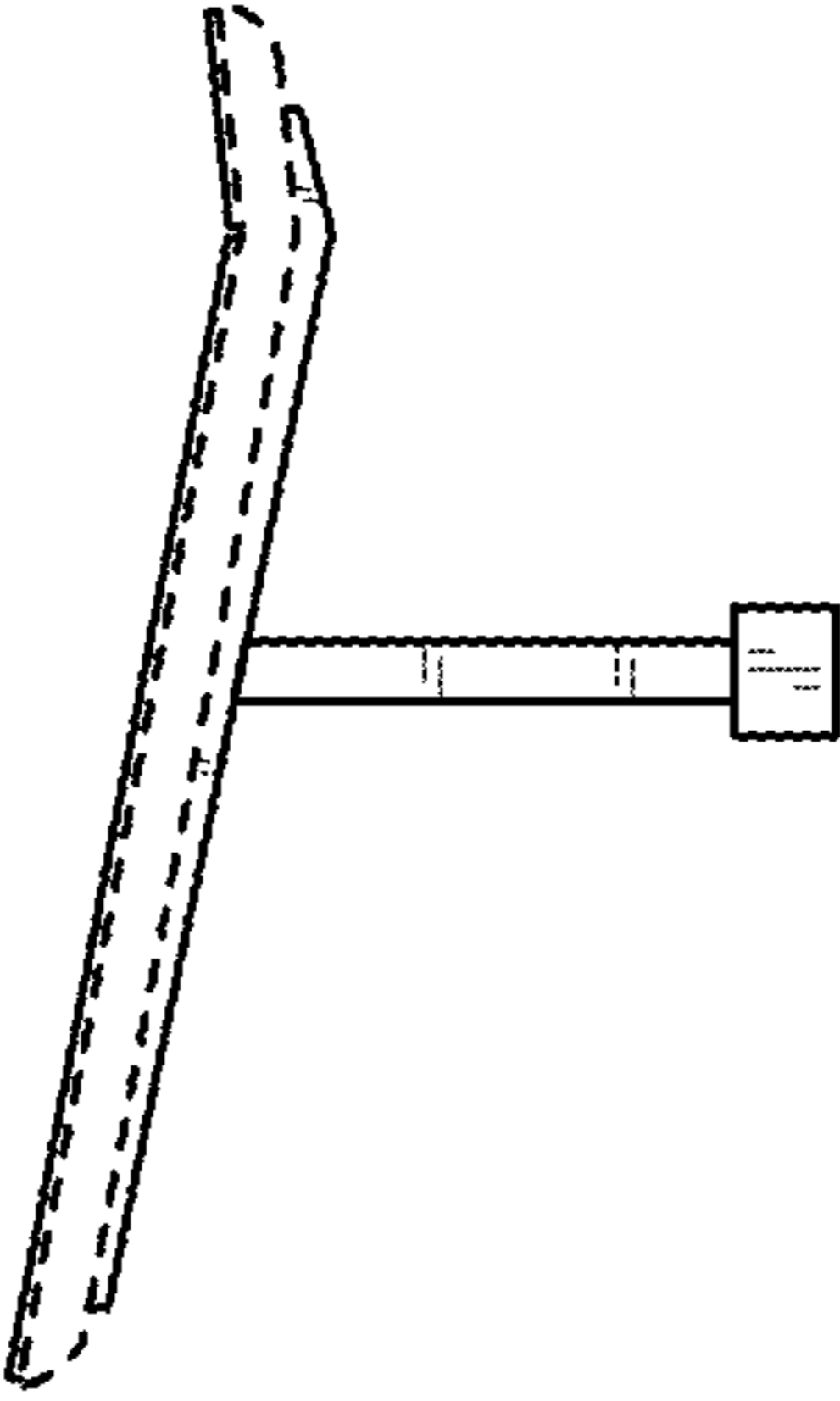


FIG. 5

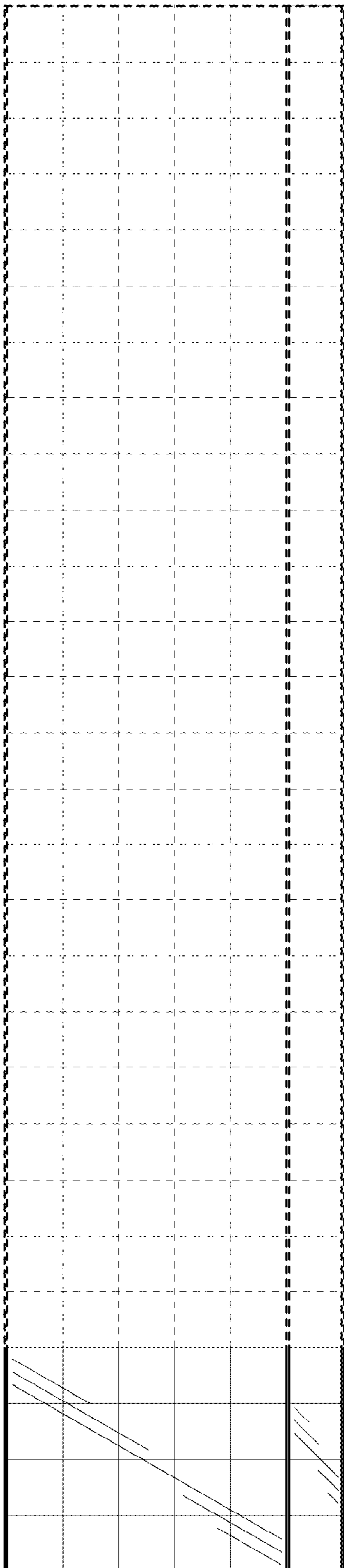


FIG. 7

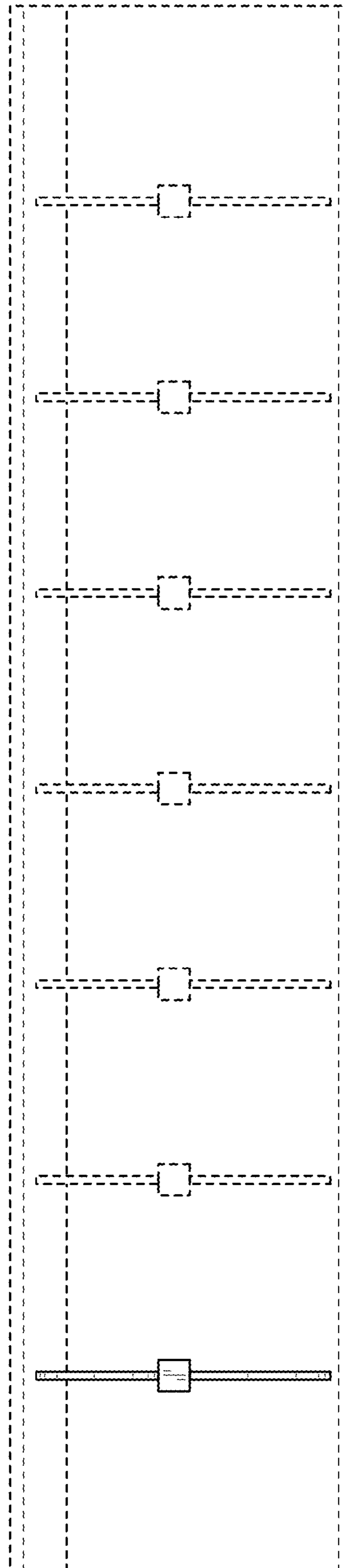


FIG. 8