



US00D915471S

(12) **United States Design Patent** (10) **Patent No.:** **US D915,471 S**
Paterson (45) **Date of Patent:** **** Apr. 6, 2021**

(54) **HARROW CHAIN ASSEMBLY**
(71) Applicant: **K S Paterson Nominees Pty Ltd, Bute (AU)**
(72) Inventor: **Kentyn Scott Paterson, Bute (AU)**
(73) Assignee: **K S PATERSON NOMINEES PTY LTD, Bute (AU)**
(**) Term: **15 Years**
(21) Appl. No.: **29/704,724**
(22) Filed: **Sep. 6, 2019**
(30) **Foreign Application Priority Data**

Mar. 7, 2019 (AU) 201911212
(51) **LOC (13) Cl.** **15-03**
(52) **U.S. Cl.**
USPC **D15/27**
(58) **Field of Classification Search**
USPC D15/10, 11, 27, 28, 29, 33, 17; 172/579, 172/311, 568, 612, 468, 637, 662, 684.5, 172/689, 551, 576, 595, 455, 518, 527, 172/567, 586, 142, 152, 154, 178, 181, 172/196, 442, 440, 441, 314, 548, 454, 172/583, 140, 776, 22, 145-147, 175, 172/669, 657
CPC A01B 23/06; A01B 26/00; A01B 21/08; A01B 21/00-086; A01B 31/00; A01B 19/00; A01B 19/08; A01B 7/00; A01B 25/00; A01B 49/02; A01B 49/027; F16G 13/00
See application file for complete search history.

(56) **References Cited**
U.S. PATENT DOCUMENTS
6,484,812 B1 * 11/2002 Clark A01B 21/04 172/540
7,137,239 B2 * 11/2006 Paterson A01B 19/08 59/85

7,607,489 B2 * 10/2009 Kelly A01B 23/06 172/311
D615,107 S * 5/2010 Kelly A01B 23/06 D15/28
D615,108 S * 5/2010 Kelly A01B 21/08 D15/28

(Continued)

Primary Examiner — Mark A Goodwin
(74) *Attorney, Agent, or Firm* — McAndrews, Held & Malloy, Ltd.

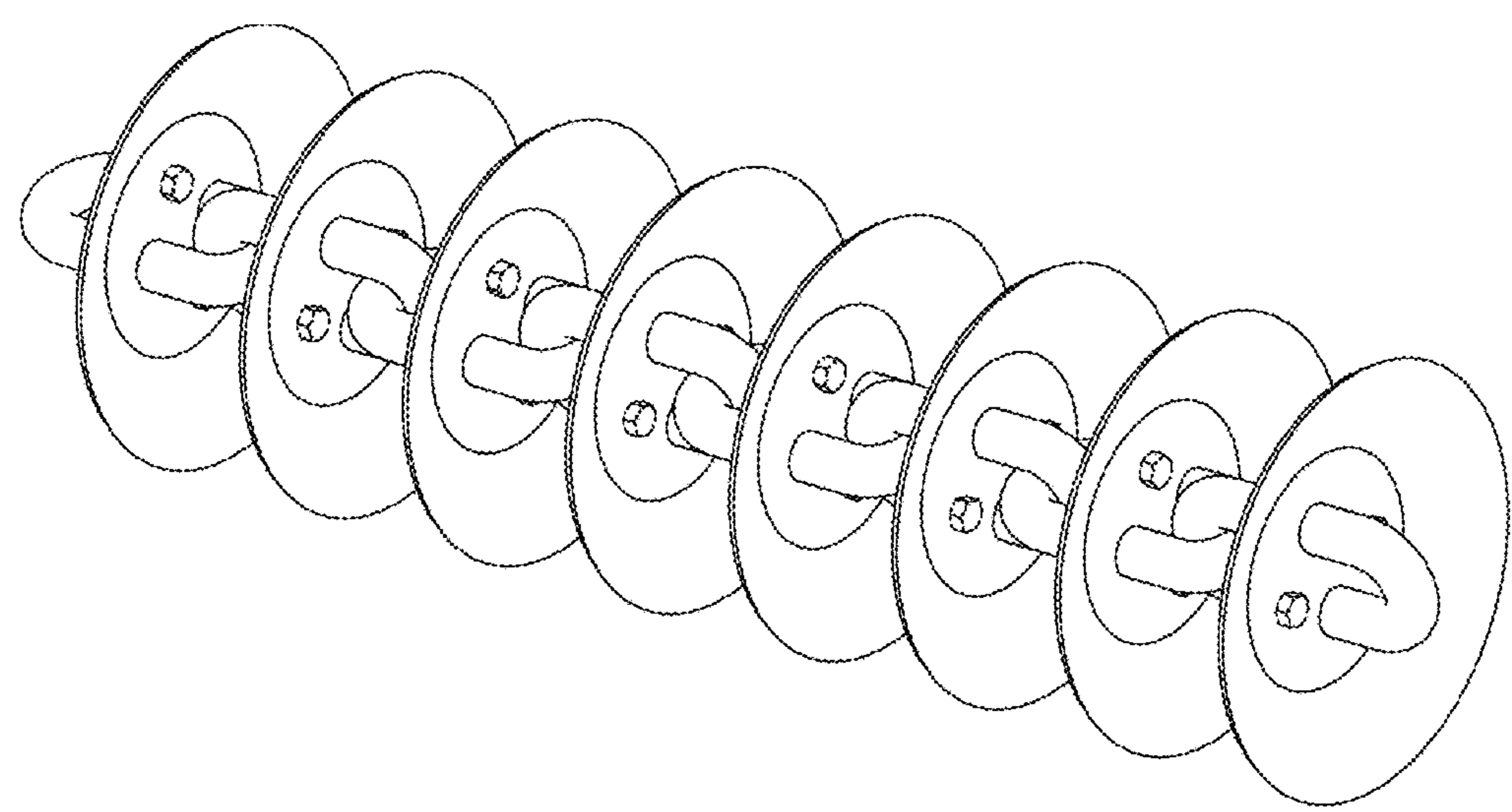
(57) **CLAIM**

The ornamental design for a harrow chain assembly, as shown and described.

DESCRIPTION

FIG. 1 is a front perspective view of a harrow chain assembly showing my new design;
FIG. 2 is a rear perspective view thereof;
FIG. 3 is a side view thereof;
FIG. 4 is a front view thereof;
FIG. 5 is a rear view thereof;
FIG. 6 is an exploded rear perspective view thereof;
FIG. 7 is a front perspective view of a harrow chain link of the harrow chain assembly of FIGS. 1-6, shown separately for clarity of illustration;
FIG. 8 is a rear perspective view thereof;
FIG. 9 is a top view thereof;
FIG. 10 is a bottom view thereof;
FIG. 11 is a side view thereof, the opposite side view being a mirror image thereof;
FIG. 12 is an exploded rear perspective view thereof; and, FIG. 13 is an exploded rear perspective view thereof.
The broken line showing of the bolt heads in FIGS. 1, 4, 7, and 12 is included for the purpose of illustrating portions of the harrow chain assembly that form no part of the claimed design.

1 Claim, 10 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

7,963,345 B1 * 6/2011 Hicks A01B 21/08
172/612
D694,284 S * 11/2013 Paterson D15/28
D694,285 S * 11/2013 Paterson D15/28
D700,219 S * 2/2014 Paterson D15/28
D736,269 S * 8/2015 Paterson D15/29
D742,725 S * 11/2015 Paterson D8/367
D748,678 S * 2/2016 Kelly D15/27
D748,680 S * 2/2016 Ainge D15/29
D780,814 S * 3/2017 Ainge D15/29
D821,451 S * 6/2018 Paterson D15/28
D823,902 S * 7/2018 Paterson D15/28
D847,871 S * 5/2019 Ainge D15/29
D856,377 S * 8/2019 Ainge D15/28
D856,382 S * 8/2019 Ainge D15/29
D864,258 S * 10/2019 Andrews D15/28
2005/0262823 A1 * 12/2005 Paterson F16G 13/00
59/84
2008/0314606 A1 * 12/2008 Kelly A01B 21/08
172/579
2012/0247795 A1 * 10/2012 Hicks A01B 73/046
172/612
2017/0013770 A1 * 1/2017 Ainge A01B 21/08
2020/0170166 A1 * 6/2020 Paterson A01B 7/00

* cited by examiner

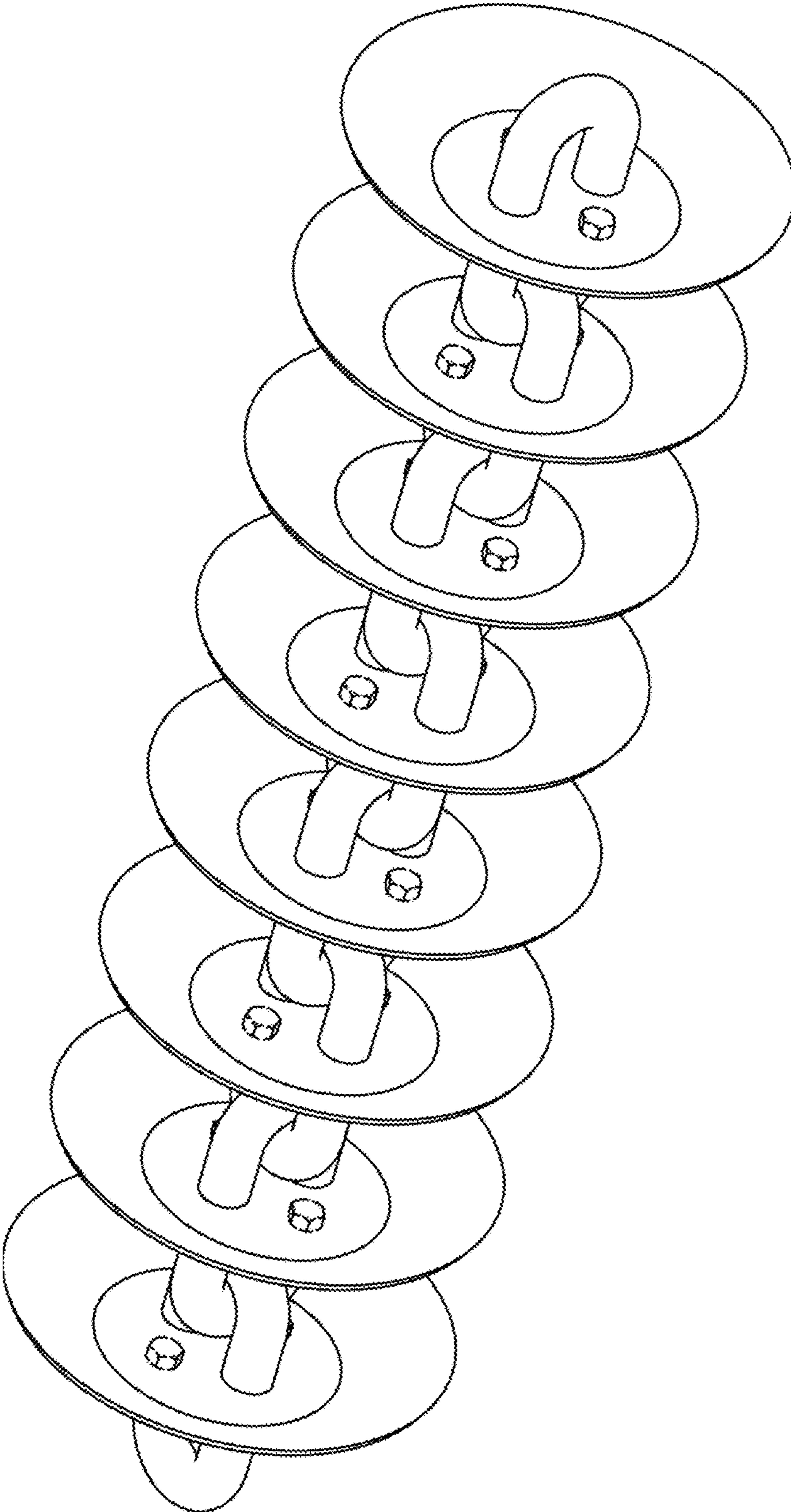


Figure 1

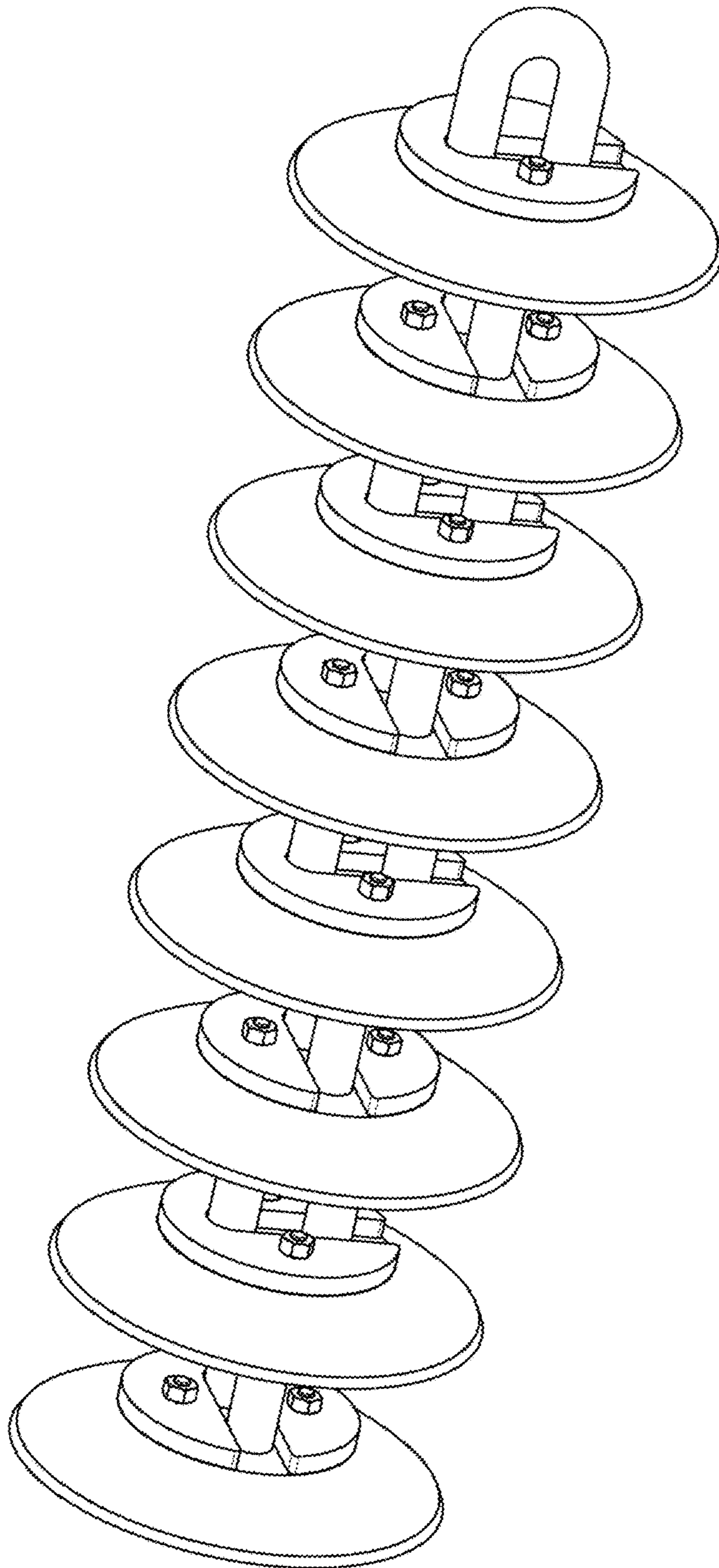


Figure 2

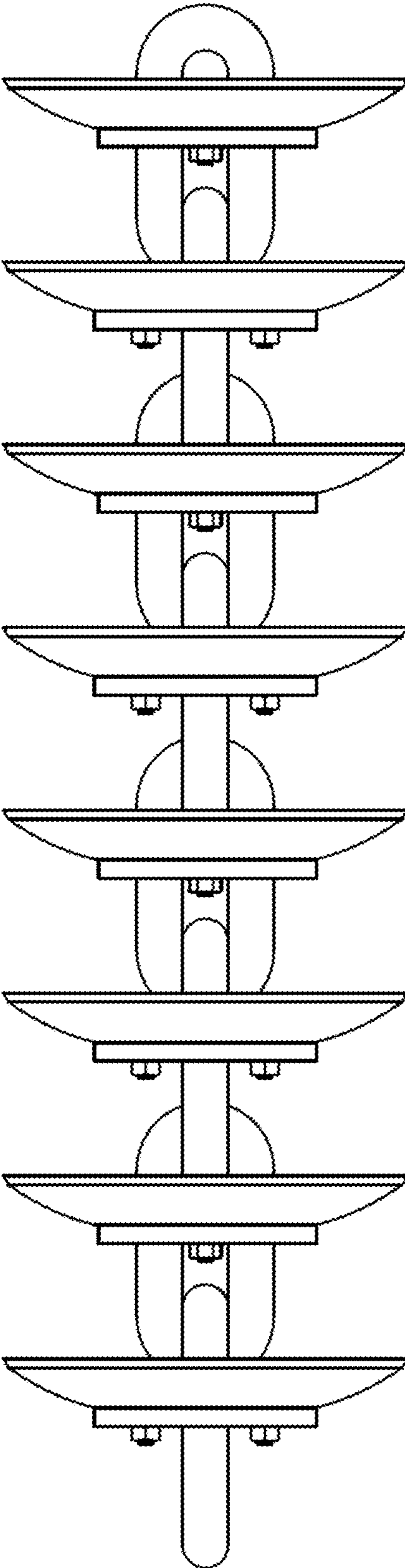


Figure 3

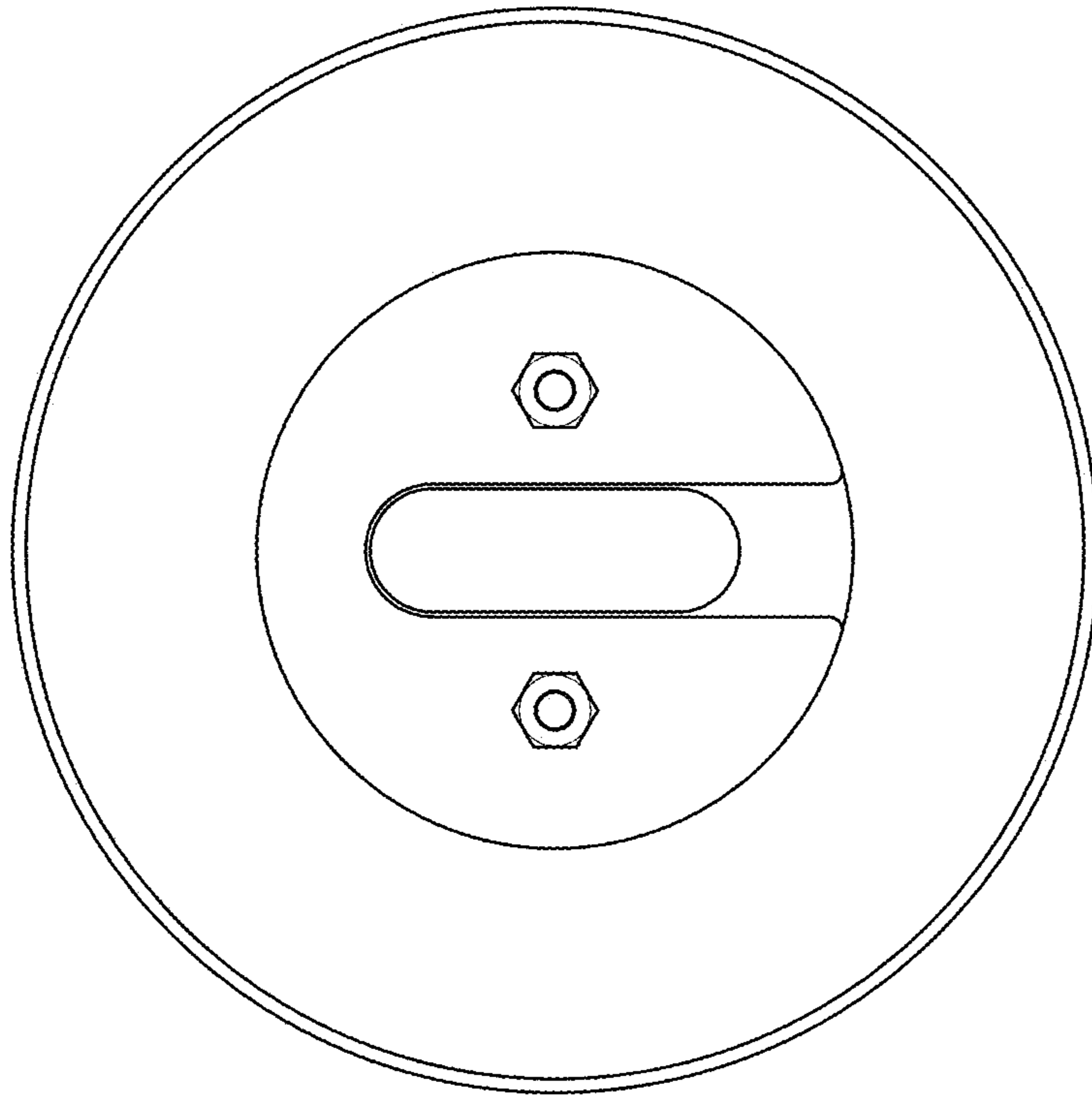


Figure 5

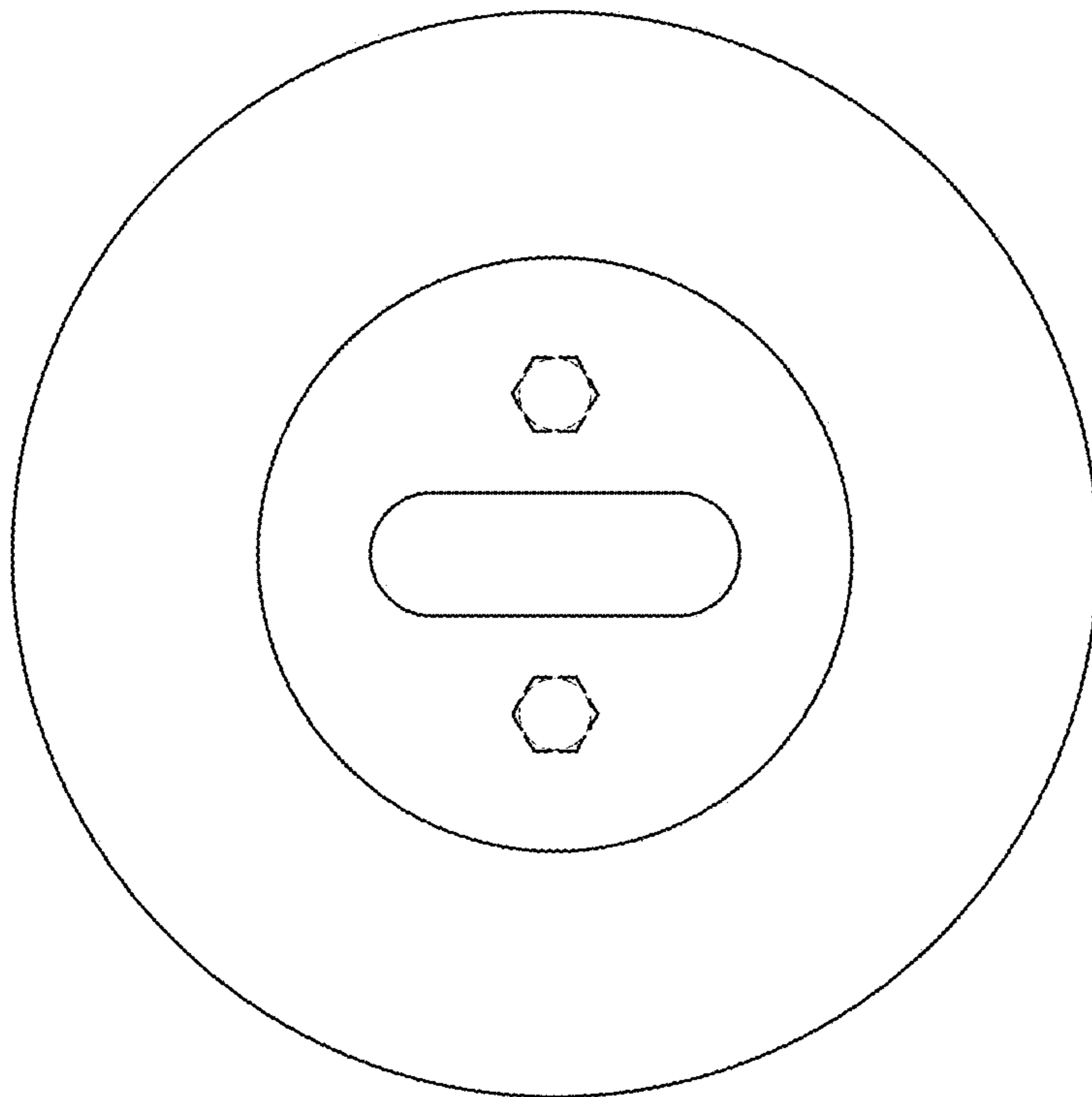


Figure 4

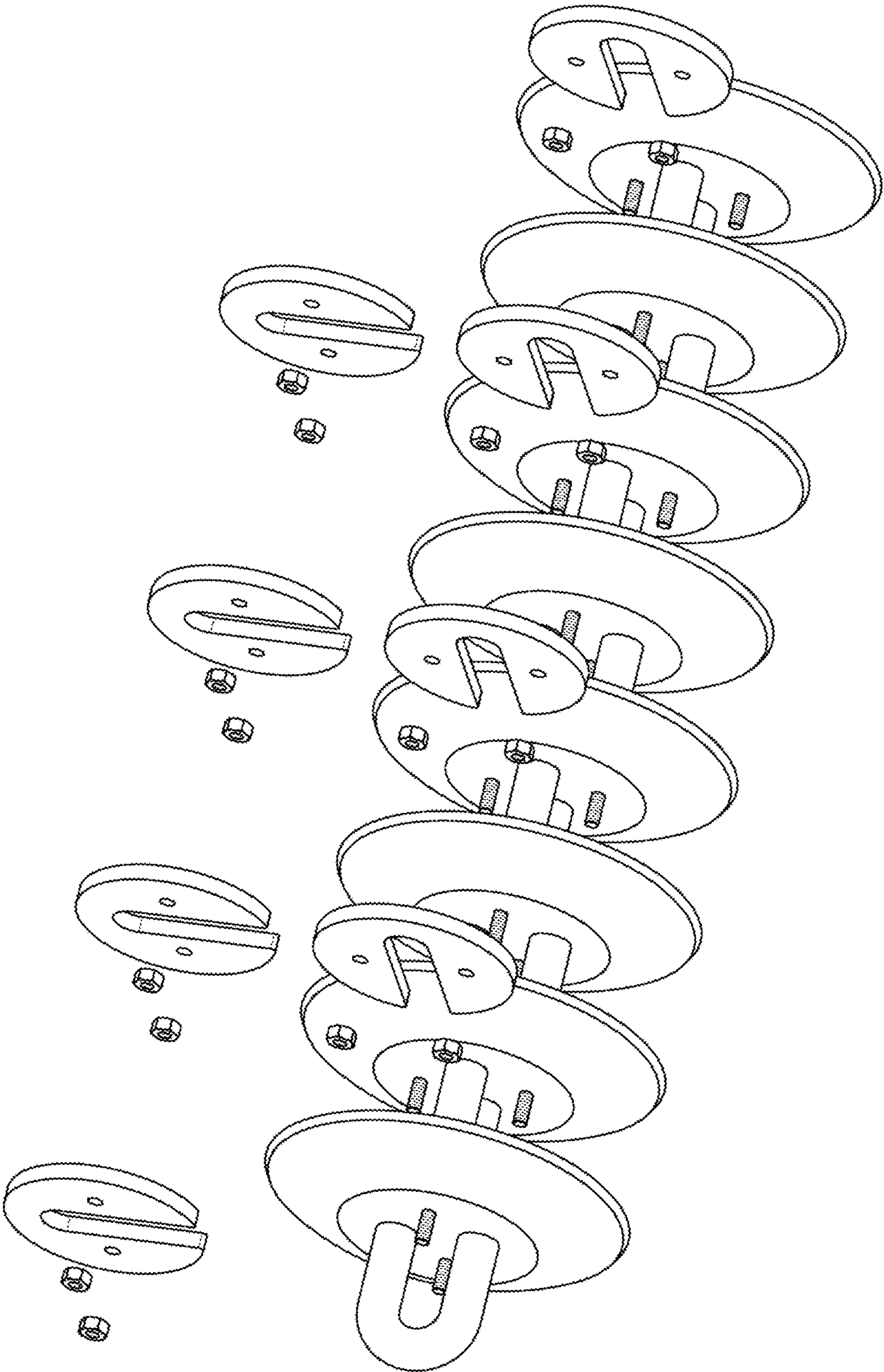


Figure 6

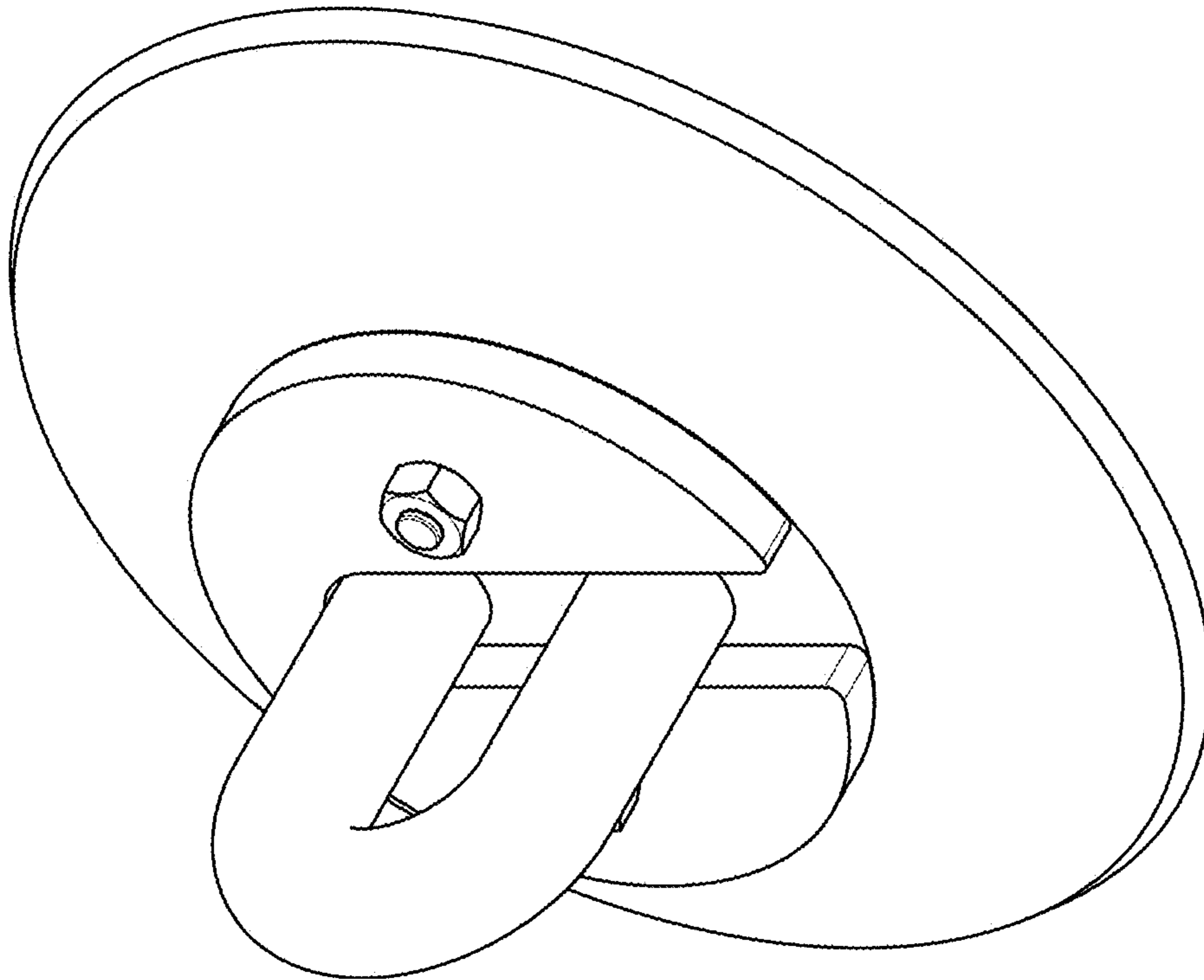


Figure 8

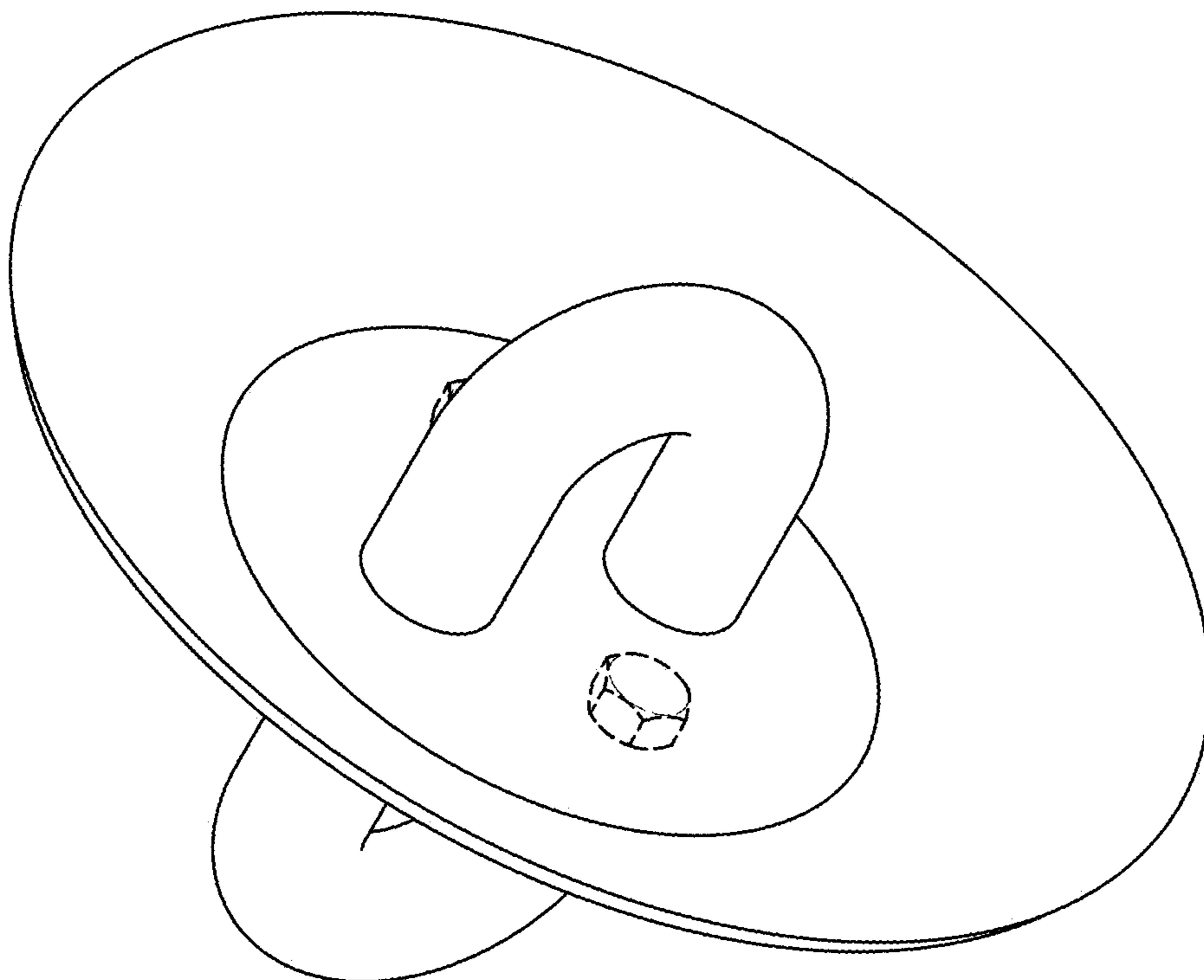


Figure 7

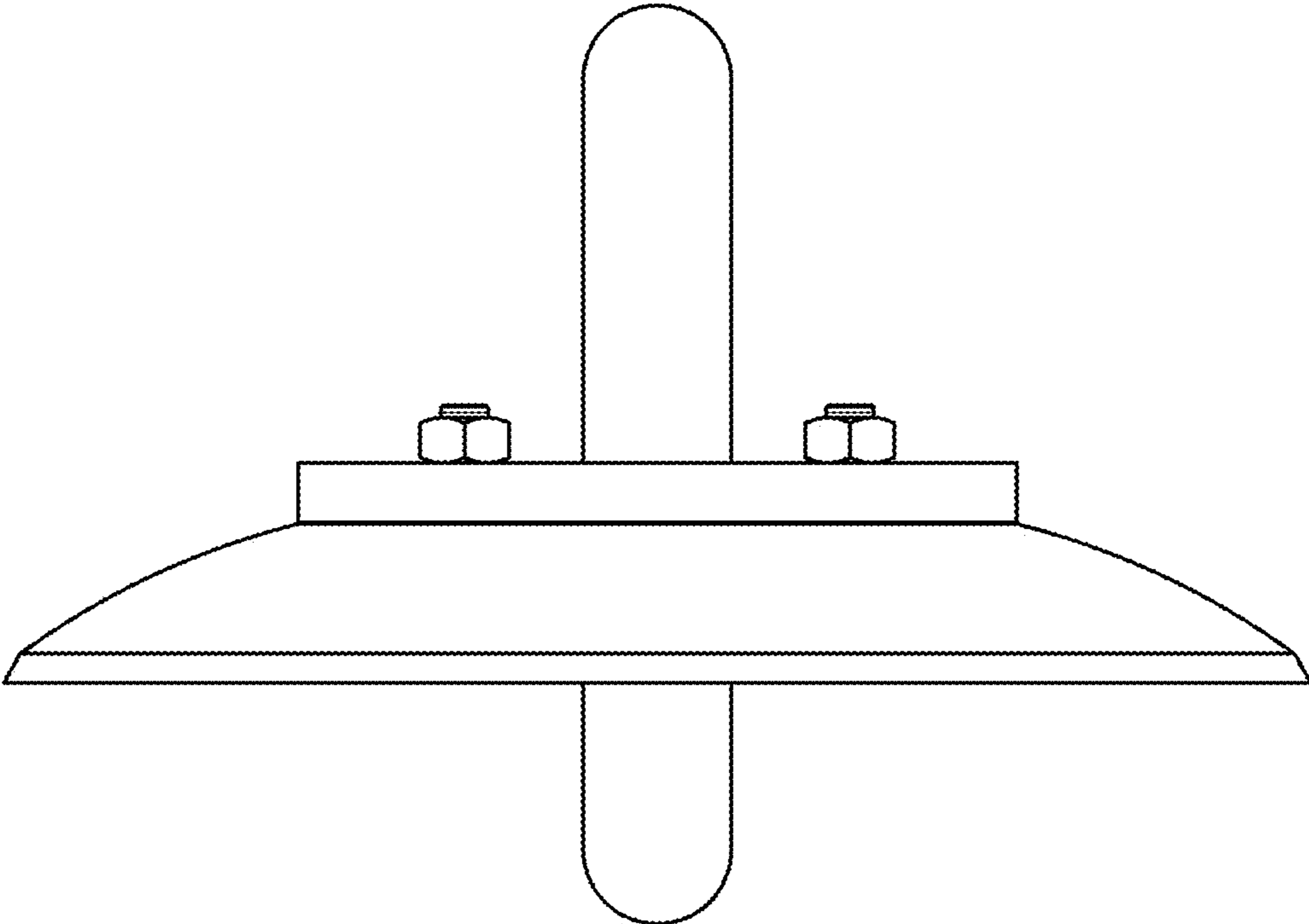


Figure 9

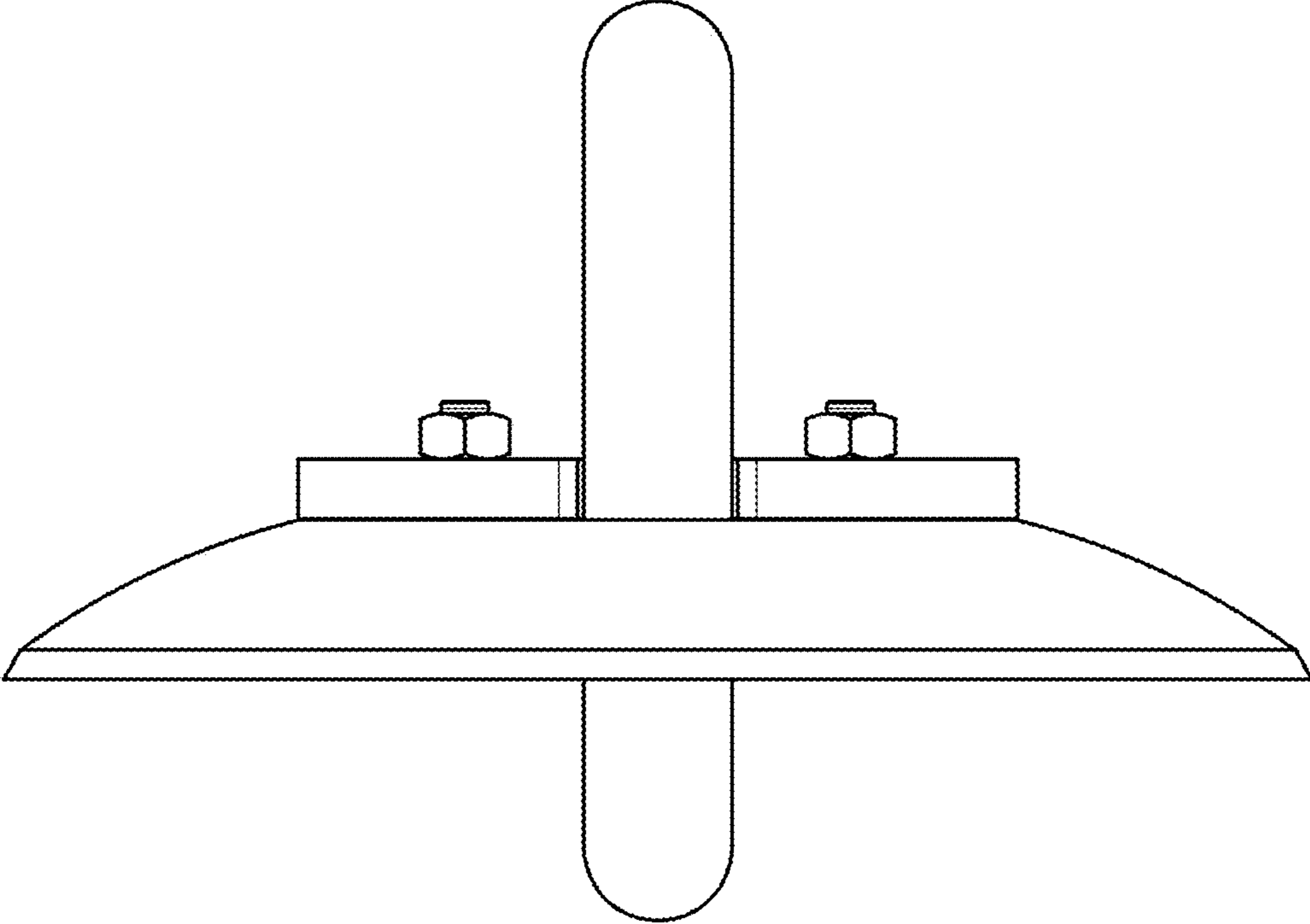


Figure 10

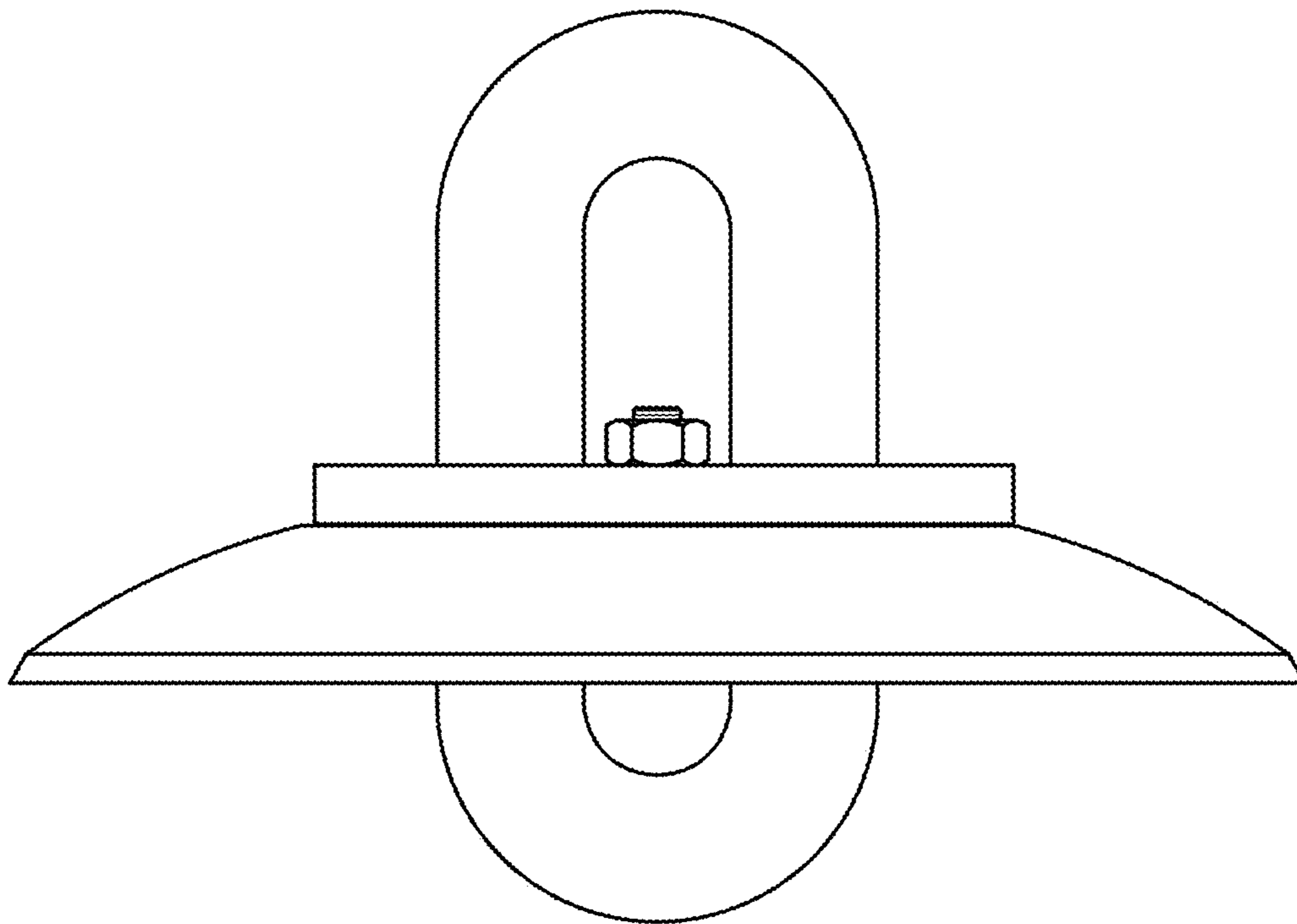


Figure 11

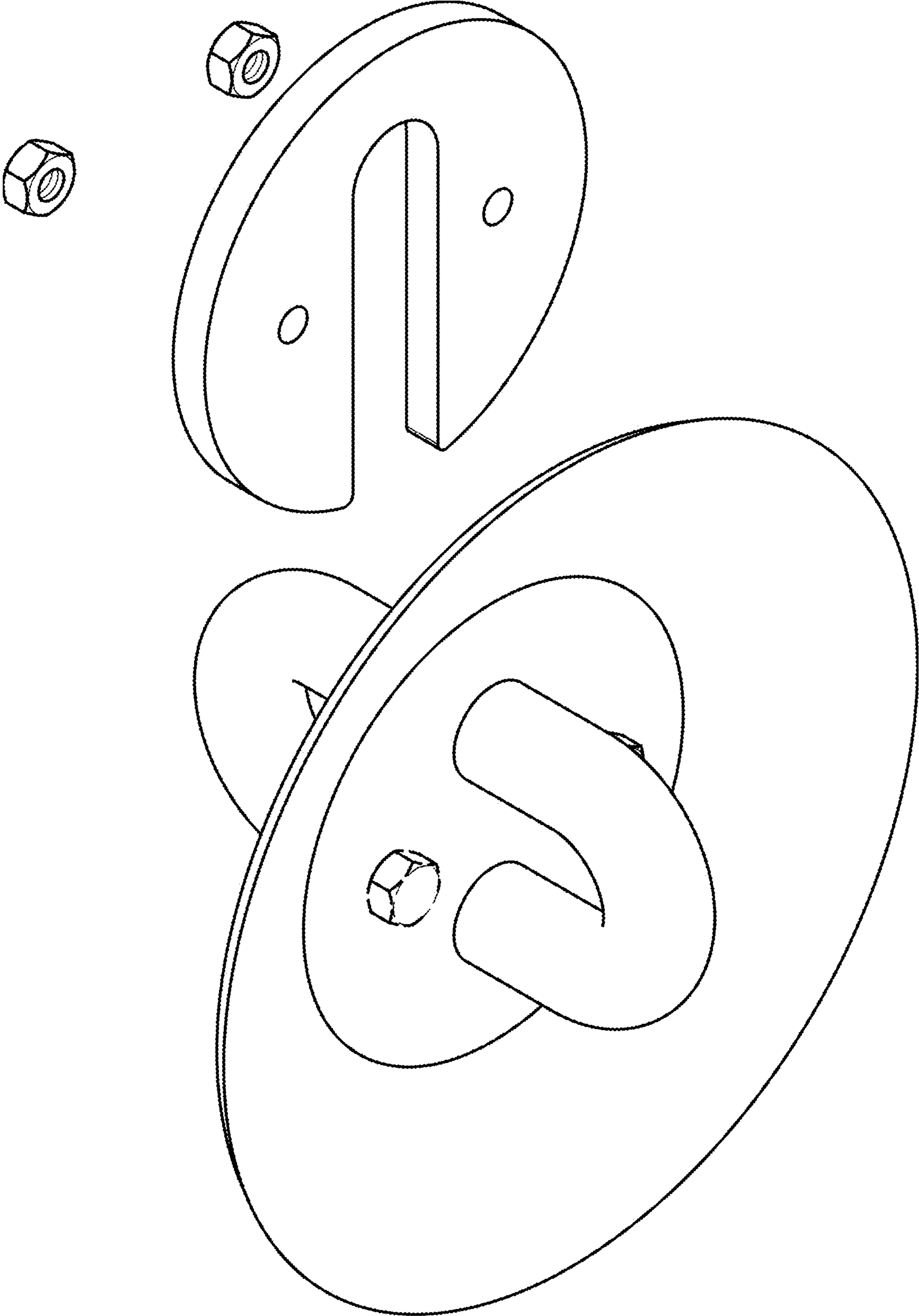


Figure 12

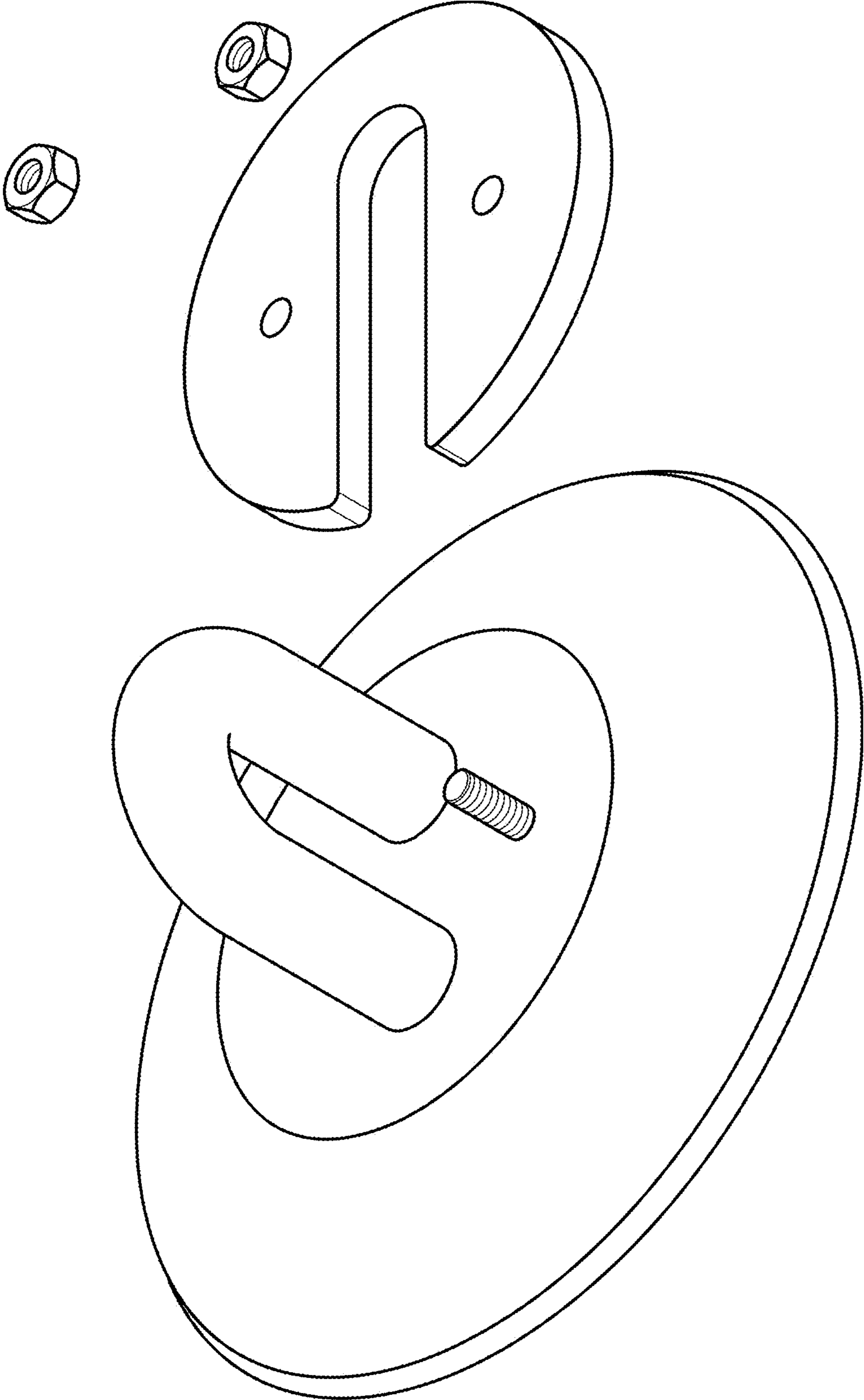


Figure 13