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(12) **United States Design Patent** (10) **Patent No.:** **US D979,674 S**  
**Zhao** (45) **Date of Patent:** **\*\* Feb. 28, 2023**

(54) **MULTIFUNCTION EXERCISE APPARATUS**

7,455,634 B2 \* 11/2008 Barniak ..... A63B 3/00  
482/96

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D633,962 S \* 3/2011 Stacey ..... D21/691  
D698,402 S \* 1/2014 Saletta ..... D21/691  
D820,011 S \* 6/2018 Rossi ..... D6/682  
D868,184 S \* 11/2019 Redmond ..... D21/691  
D868,185 S \* 11/2019 Redmond ..... D21/691

(72) Inventor: **Liyong Zhao, Jinhua (CN)**

(Continued)

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

FOREIGN PATENT DOCUMENTS

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CN 208405933 U 1/2019

(22) Filed: **Jun. 25, 2019**

(51) **LOC (14) Cl.** ..... **21-02**

(52) **U.S. Cl.**

USPC ..... **D21/691**; D21/686

(58) **Field of Classification Search**

USPC ..... D21/686, 679, 691, 797; 482/23, 34, 36,  
482/38, 39, 41, 42, 93, 99, 133, 140, 142,  
482/143

CPC ..... A63B 17/00; A63B 21/00047; A63B  
23/1218; A63B 23/1227; A63B 21/068;  
A63B 21/4037

See application file for complete search history.

OTHER PUBLICATIONS

Multifunctional by Zhejiang Tongcang Industry dated no date given.  
Found online [Aug. 24, 2022] [https://www.alibaba.com/product-detail/Multifunctional-pull-up-tower-for-home\\_1600300921987.html?spm=a2700.shop\\_plgr.41413.8.4d91748cbJ7oz0.\\*](https://www.alibaba.com/product-detail/Multifunctional-pull-up-tower-for-home_1600300921987.html?spm=a2700.shop_plgr.41413.8.4d91748cbJ7oz0.*)

*Primary Examiner* — Ryan Harvey

(57) **CLAIM**

The ornamental design for a multifunction exercise apparatus, as shown and described.

**DESCRIPTION**

FIG. 1 is a front, top perspective view of a multifunction exercise apparatus, showing my new design;  
FIG. 2 is a front elevational view thereof;  
FIG. 3 is a rear elevational view thereof;  
FIG. 4 is a left side elevational view thereof;  
FIG. 5 is a right side elevational view thereof;  
FIG. 6 is a top plan view thereof;  
FIG. 7 is a bottom plan view thereof;  
FIG. 8 is an enlarged view of the portion labeled 8 in FIG. 1; and,  
FIG. 9 is an enlarged view of the portion labeled 9 in FIG. 1.

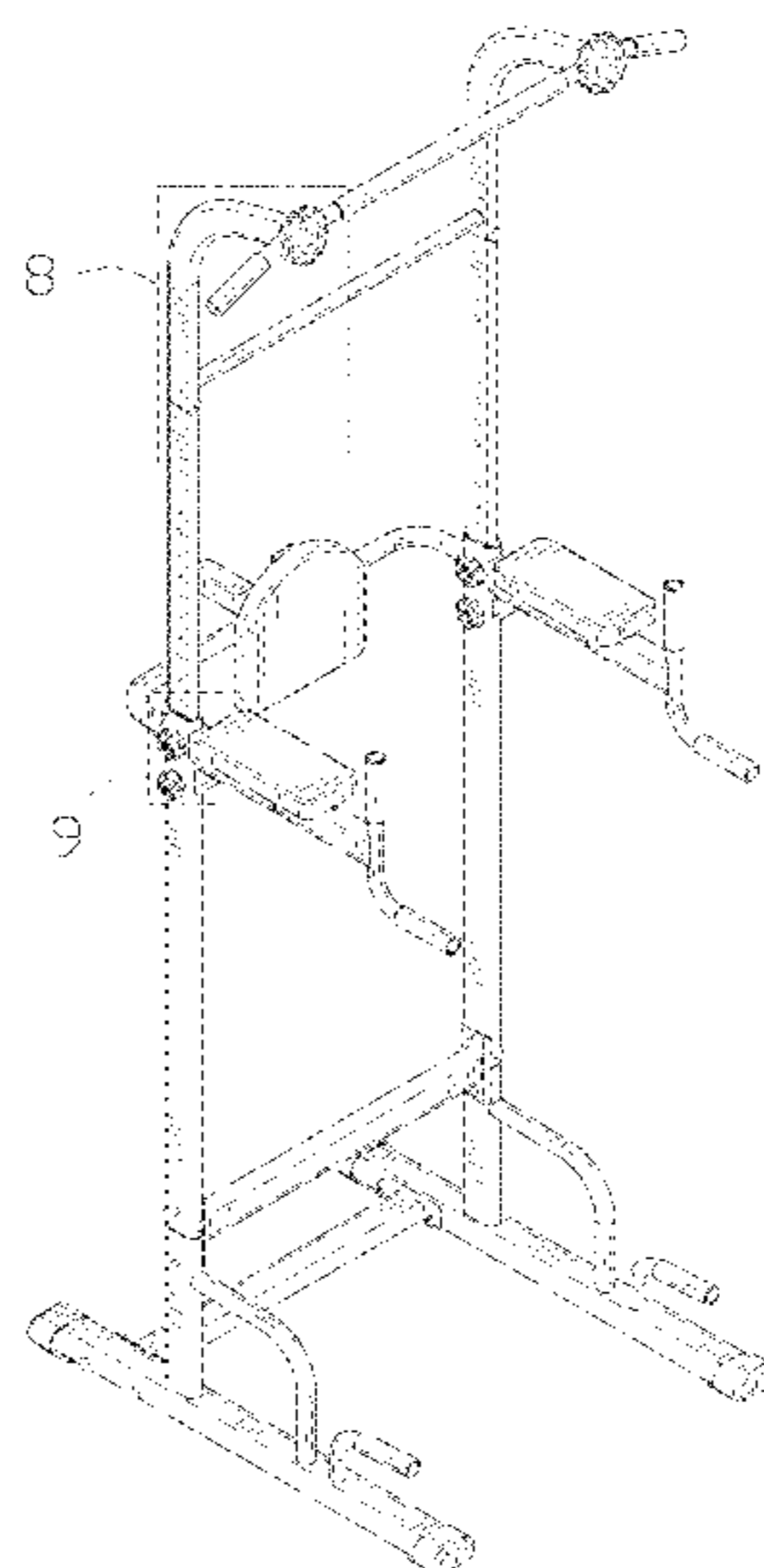
The broken lines in the drawings depict portions of the multifunction exercise apparatus that form no part of the claimed design.

**1 Claim, 9 Drawing Sheets**

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,286,782 A \* 9/1981 Fuhrhop ..... A63B 23/00  
482/99  
D267,419 S \* 12/1982 Komarnicki ..... D21/691  
D320,823 S \* 10/1991 Tanner ..... D21/686  
D324,708 S \* 3/1992 Walsh ..... D21/691  
5,156,580 A \* 10/1992 Holland ..... A63B 1/00  
482/38  
D339,835 S \* 9/1993 Hsieh ..... D21/691  
5,372,556 A \* 12/1994 Ropp ..... A63B 23/12  
482/133  
5,407,404 A \* 4/1995 Killian ..... A63B 21/0552  
482/130  
D372,059 S \* 7/1996 Taylor ..... D21/691  
6,048,294 A \* 4/2000 Formanek ..... A63B 21/00047  
482/141  
D544,050 S \* 6/2007 Webber ..... D21/686  
D578,582 S \* 10/2008 Gomez ..... D21/686



(56)

**References Cited**

U.S. PATENT DOCUMENTS

10,751,565 B2 \* 8/2020 Saadallah ..... A63B 21/0724  
D936,764 S \* 11/2021 Gao ..... D21/686  
D940,799 S \* 1/2022 Li ..... D21/691  
D942,562 S \* 2/2022 Zhao ..... D21/686  
2005/0049115 A1 \* 3/2005 Gomez ..... A63B 21/4035  
482/23  
2010/0285932 A1 \* 11/2010 Fisher ..... A63B 23/1245  
482/93  
2020/0391076 A1 \* 12/2020 Zhao ..... A63B 23/1209  
2020/0398104 A1 \* 12/2020 Rogers ..... A63B 21/068

\* cited by examiner

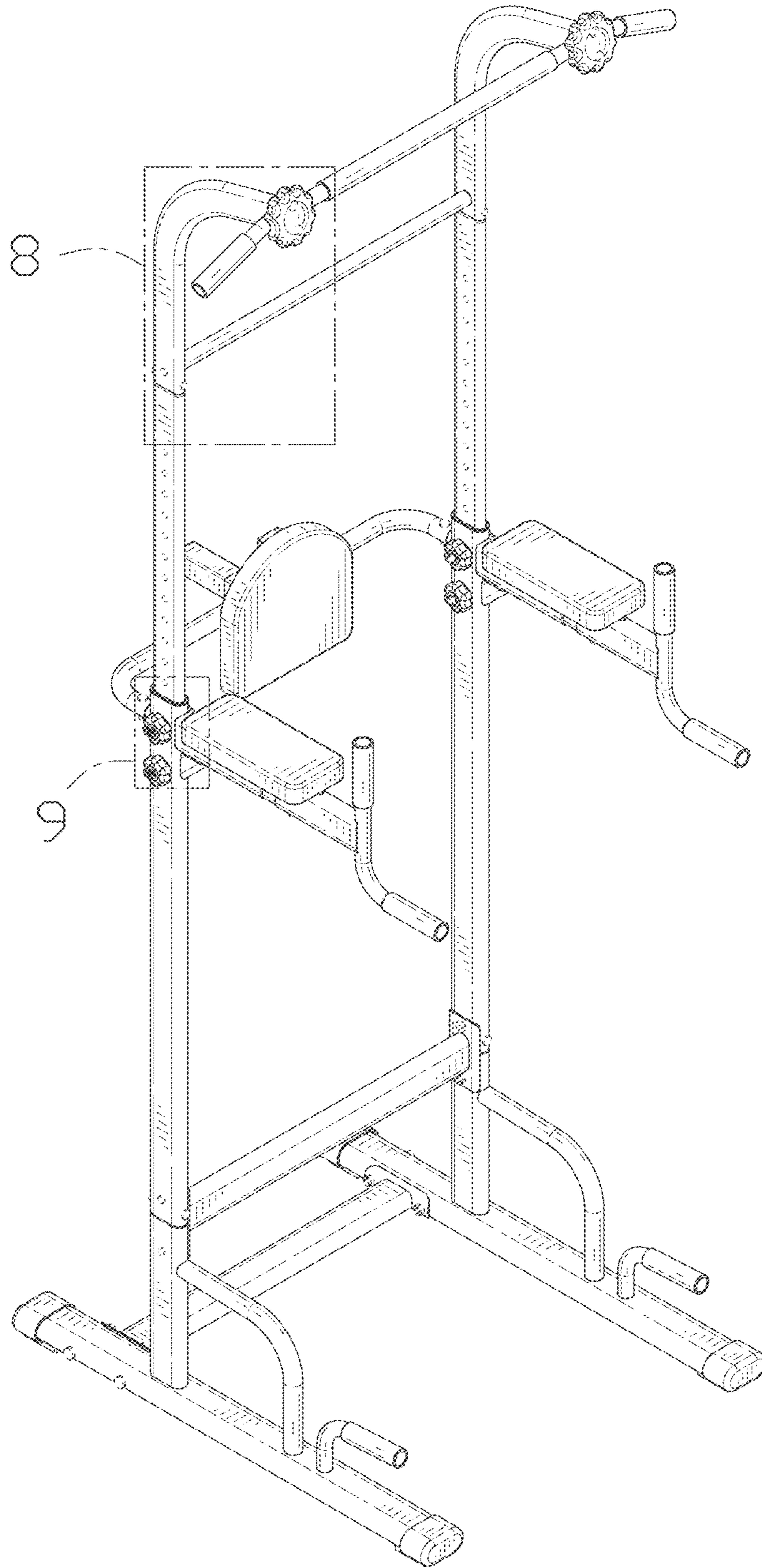


FIG. 1

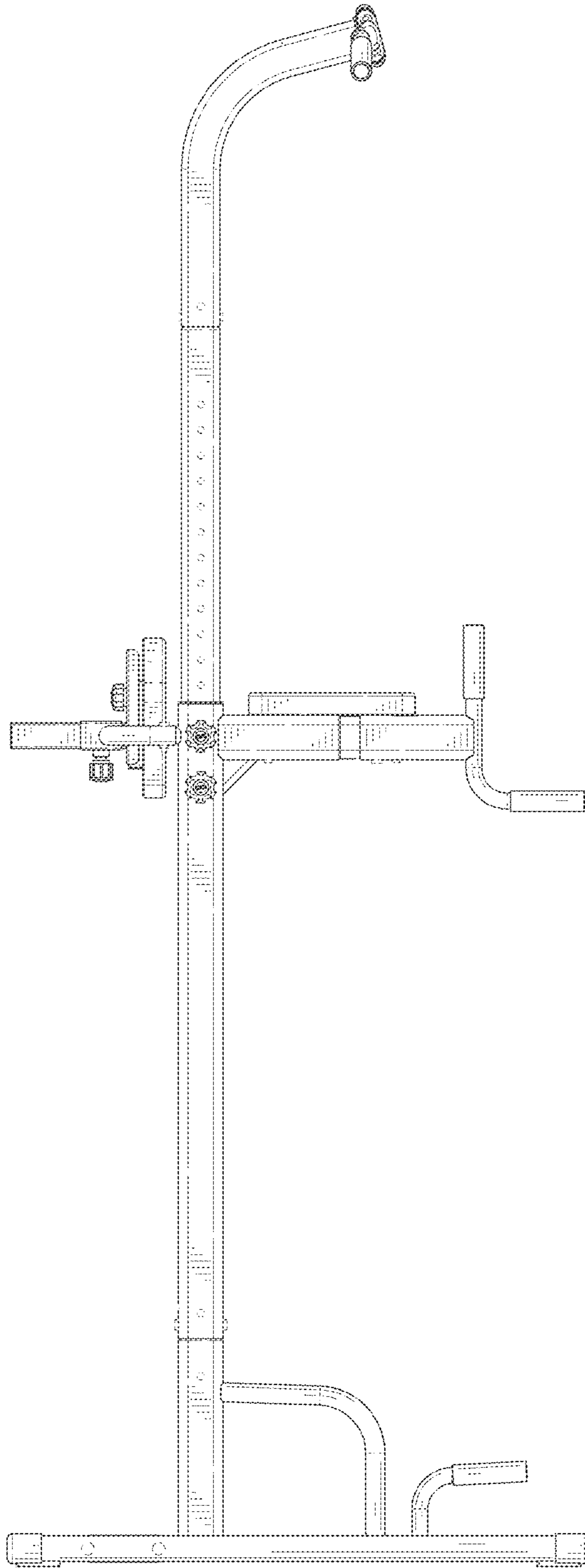


FIG. 2

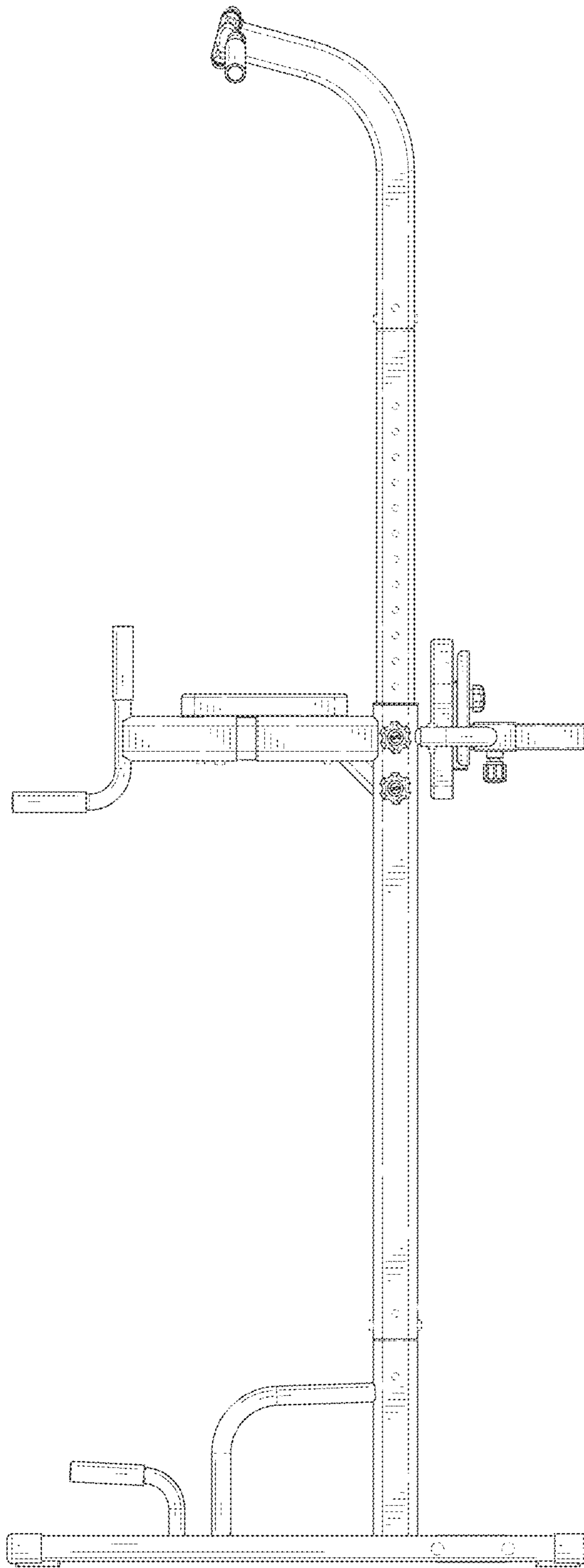


FIG. 3

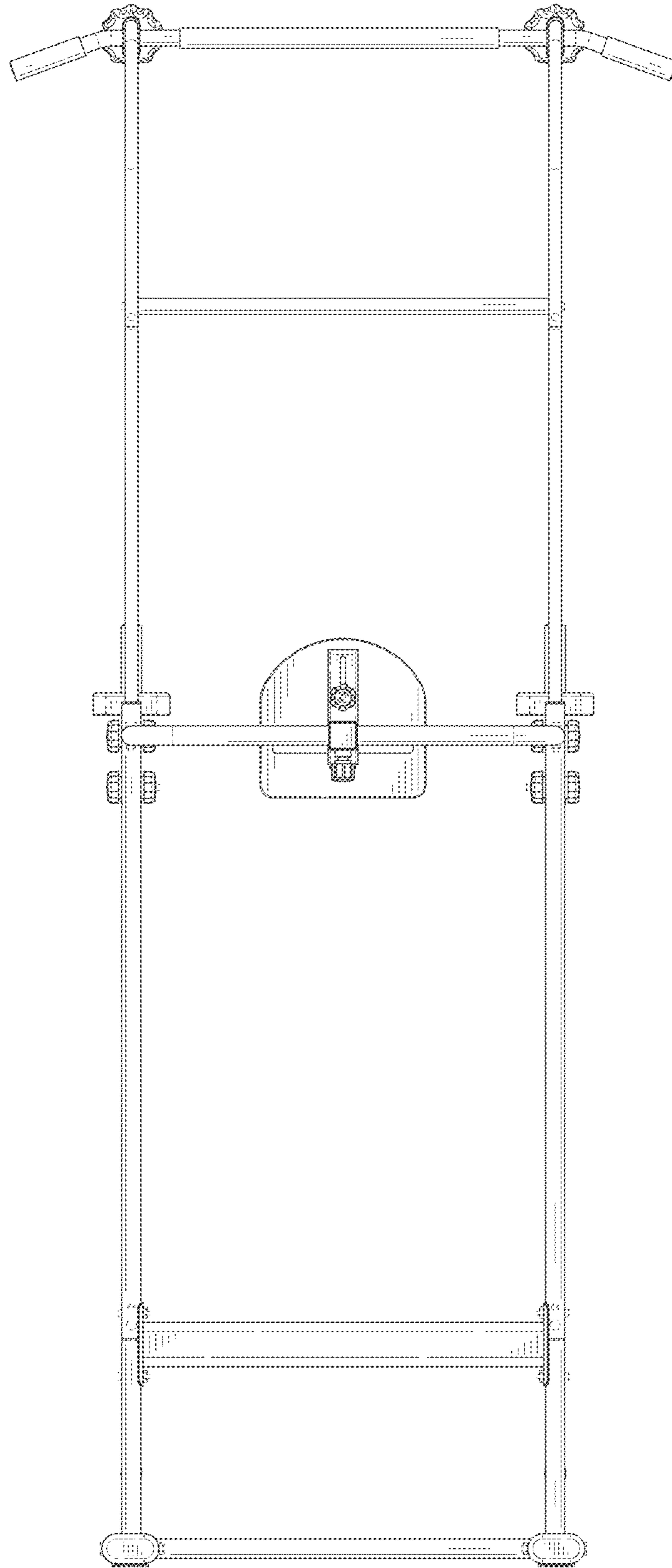


FIG. 4

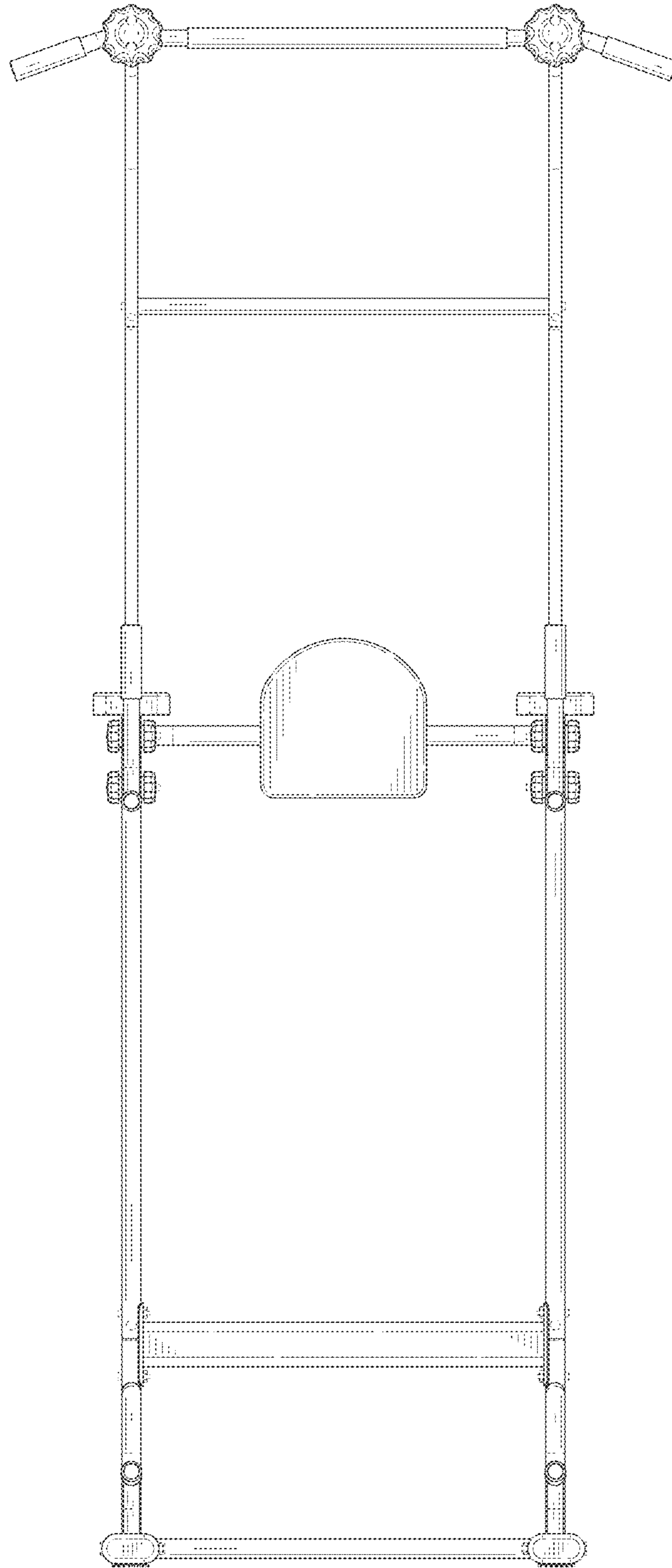


FIG. 5

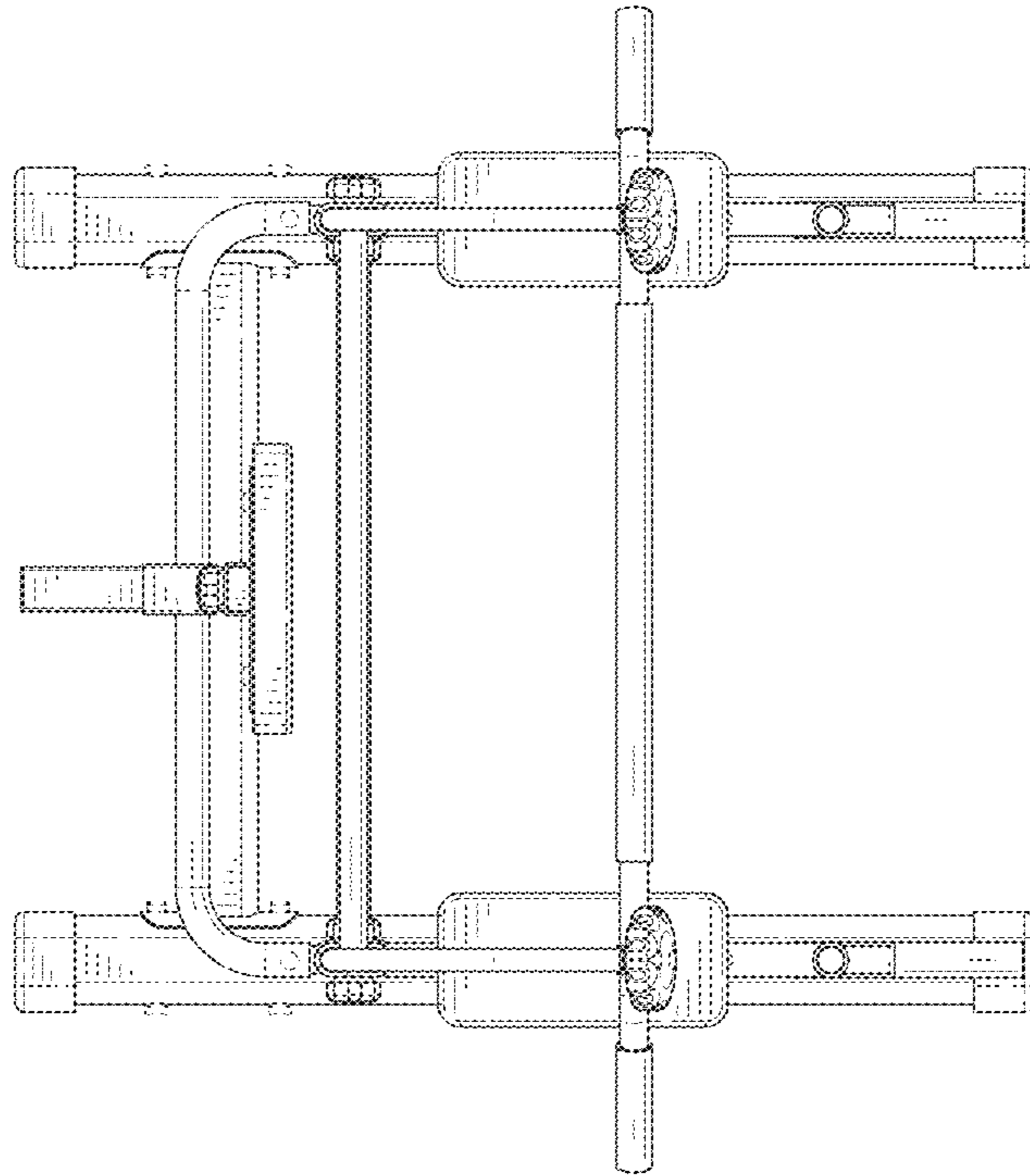


FIG. 6



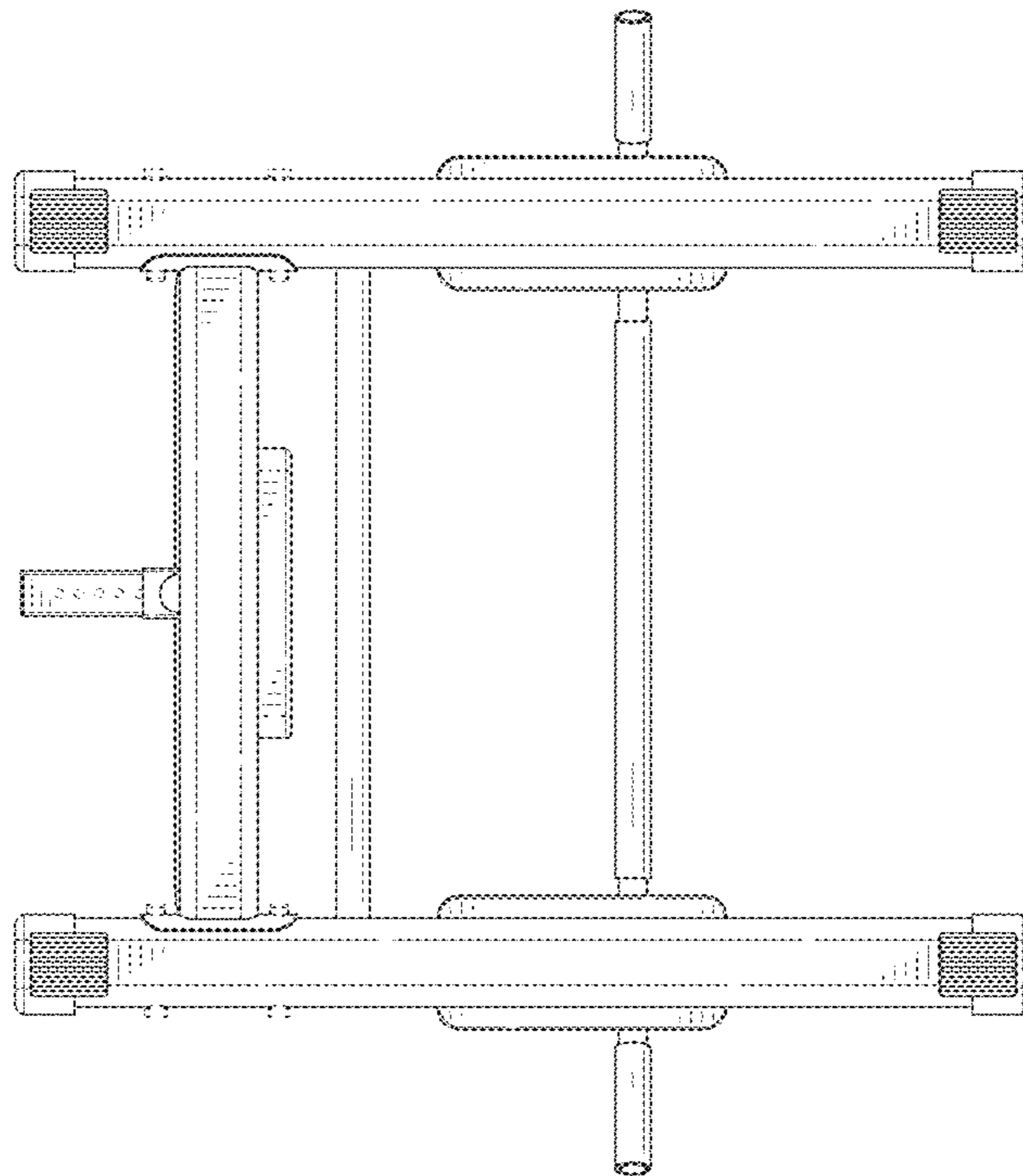


FIG. 7

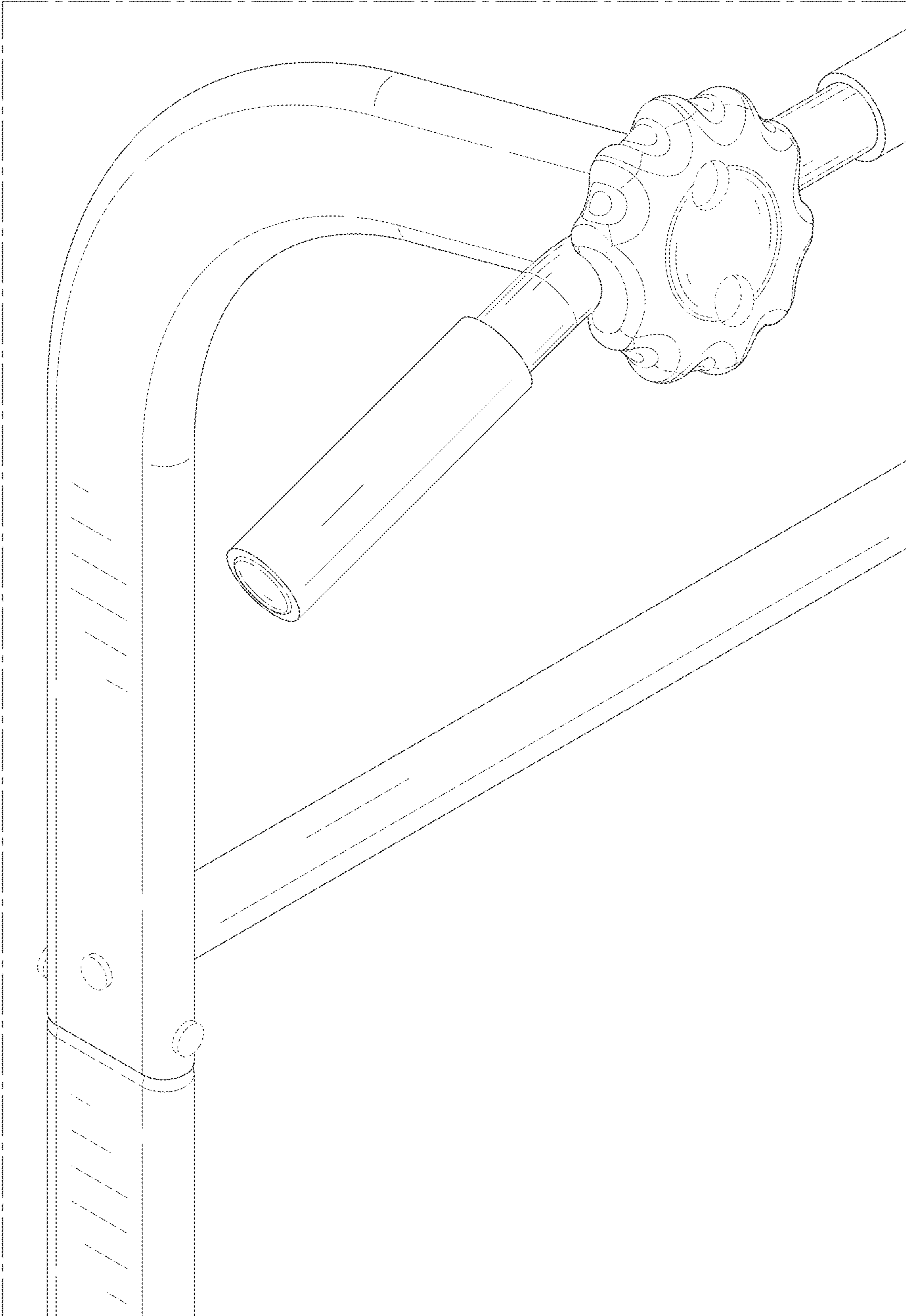


FIG. 8

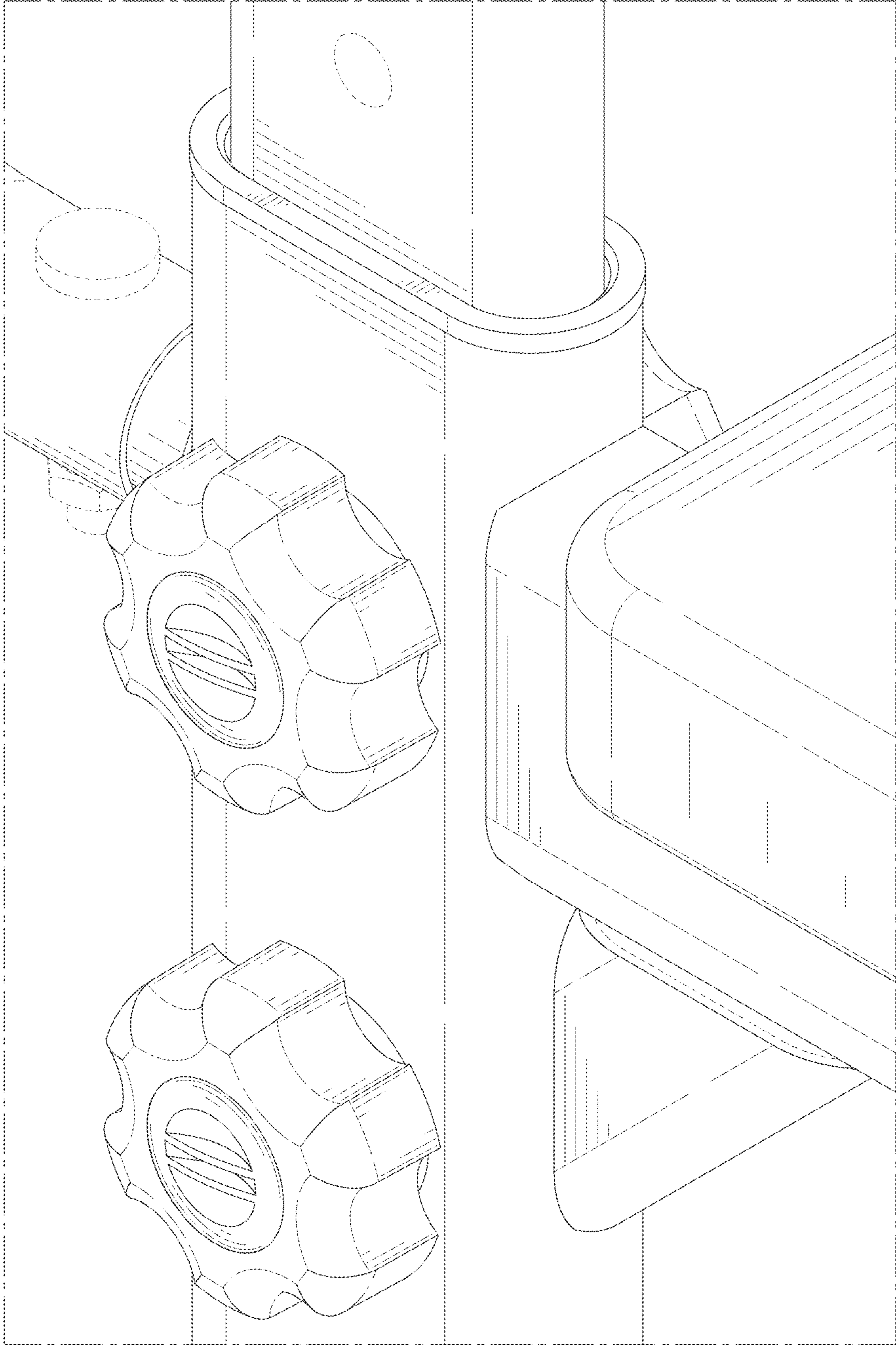


FIG. 9