

US00D962797S

(12) **United States Design Patent**  
**Aoki**

(10) **Patent No.:** **US D962,797 S**  
(45) **Date of Patent:** **\*\* Sep. 6, 2022**

(54) **SURVEYING INSTRUMENT**  
(71) Applicant: **Topcon Corporation**, Tokyo (JP)  
(72) Inventor: **Takeo Aoki**, Tokyo (JP)  
(73) Assignee: **Topcon Corporation**, Tokyo (JP)  
(\*\*) Term: **15 Years**

(21) Appl. No.: **29/736,668**  
(22) Filed: **Jun. 2, 2020**

(30) **Foreign Application Priority Data**  
Jan. 17, 2020 (JP) ..... 2020-000746 D  
(51) **LOC (13) Cl.** ..... **10-04**  
(52) **U.S. Cl.**  
USPC ..... **D10/66**  
(58) **Field of Classification Search**  
USPC ..... D10/75, 69, 56, 65, 81, 78, 60, 66;  
D14/307, 130; D16/130  
See application file for complete search history.

(56) **References Cited**  
**U.S. PATENT DOCUMENTS**  
D367,233 S \* 2/1996 Hoshino ..... D10/66  
5,905,592 A \* 5/1999 Gohdo ..... G02B 27/34  
359/424  
6,171,018 B1 \* 1/2001 Ohtomo ..... E01C 19/006  
404/84.1  
D494,074 S \* 8/2004 Ishii ..... D10/50  
8,411,285 B2 \* 4/2013 Sharp ..... G01C 1/02  
356/614  
D684,068 S \* 6/2013 Ishii ..... D10/66  
D768,516 S \* 10/2016 Aoki ..... D10/66  
D781,730 S \* 3/2017 Ishii ..... D10/66  
D781,731 S \* 3/2017 Ishii ..... D10/66  
D834,968 S \* 12/2018 Ishii ..... D10/66

2007/0064217 A1\* 3/2007 Li ..... G01C 15/002  
356/5.01  
2010/0271637 A1\* 10/2010 Li ..... G01C 15/004  
356/614  
2012/0133918 A1\* 5/2012 Sakimura ..... G01C 15/002  
356/4.01

(Continued)

**FOREIGN PATENT DOCUMENTS**

JP 1138619 S 4/2002

**OTHER PUBLICATIONS**

Semantic Scholar the Development of a Teaching Tool Using Sketchup to Enhance Surveying Competence at Durban University of Tech, publication date 2015 (online) URL:https://www.semanticscholar.org/paper/The-development-of-a-teaching-tool-using-Sketchup-Stuart/1e5c182cd49534b281a5e4a566bf3180eae5e46 (Year: 2015).\*

(Continued)

*Primary Examiner* — George D. Kirschbaum  
*Assistant Examiner* — Antoinette Martine Suiter  
(74) *Attorney, Agent, or Firm* — Muncy, Geissler, Olds & Lowe, P.C.

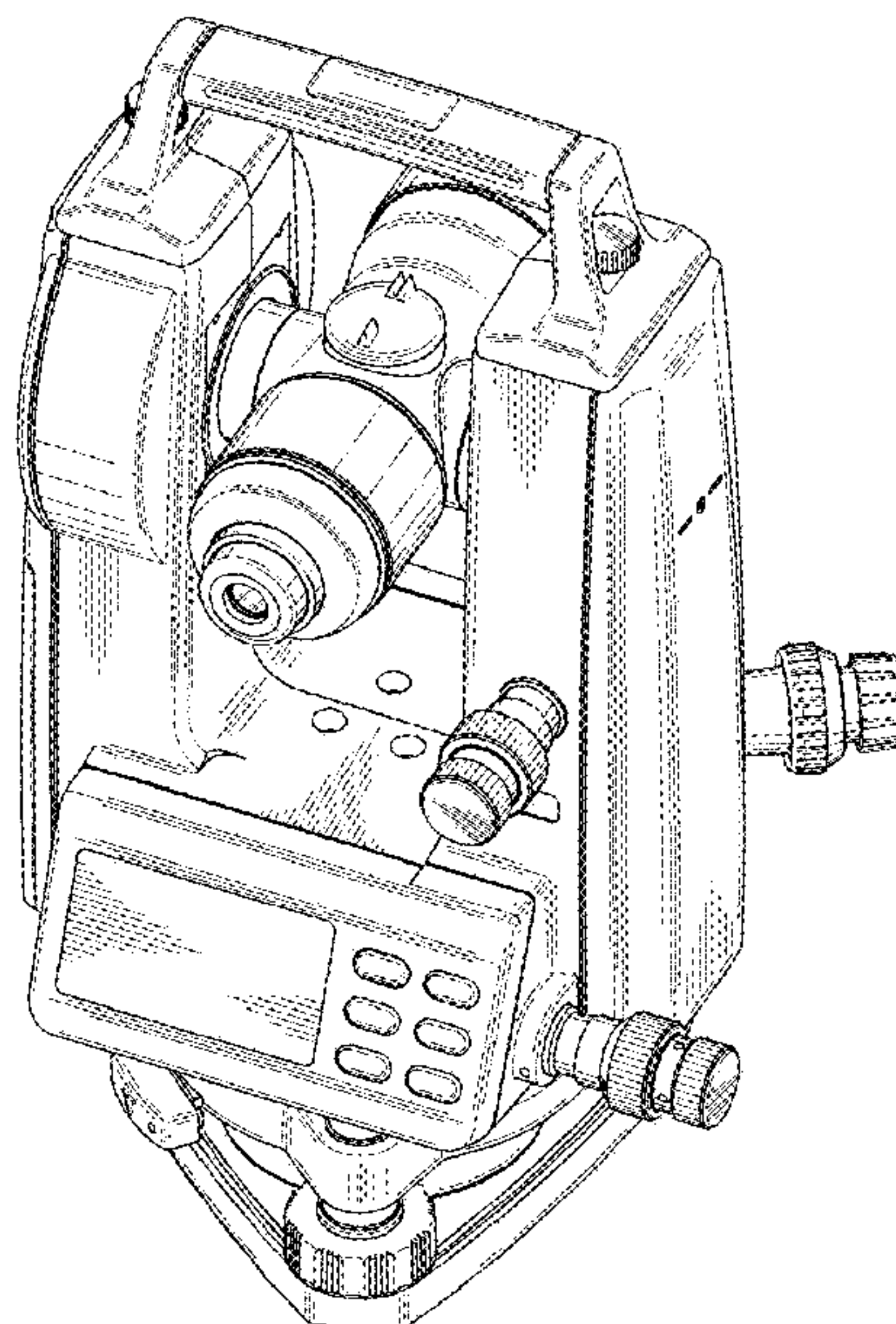
(57) **CLAIM**

The ornamental design for a surveying instrument, as shown and described.

**DESCRIPTION**

FIG. 1 is a top, front, and right perspective view of the surveying instrument showing my new design;  
FIG. 2 is a back, bottom, and left perspective view thereof;  
FIG. 3 is a front elevational view thereof;  
FIG. 4 is a back elevational view thereof;  
FIG. 5 is a top plan view thereof;  
FIG. 6 is a bottom plan view thereof;  
FIG. 7 is a right side elevational view thereof; and,  
FIG. 8 is a left side elevational view thereof.

**1 Claim, 8 Drawing Sheets**



(56)

**References Cited**

U.S. PATENT DOCUMENTS

2018/0347980 A1\* 12/2018 Kotzur ..... G01C 15/008  
2019/0018142 A1\* 1/2019 Nishita ..... G01C 3/08  
2019/0063914 A1\* 2/2019 Mayer ..... G01S 17/42  
2019/0369380 A1\* 12/2019 Ito ..... G01S 17/08

OTHER PUBLICATIONS

Review Digital Theodolite Topcon DT-200L Youtube (303216141)  
,publication date May 3, 2016 (online) URL:[https://www.youtube.com/watch?v=2aV\\_ZF09DLs](https://www.youtube.com/watch?v=2aV_ZF09DLs) (Year: 2016).\*

\* cited by examiner

F I G. 1

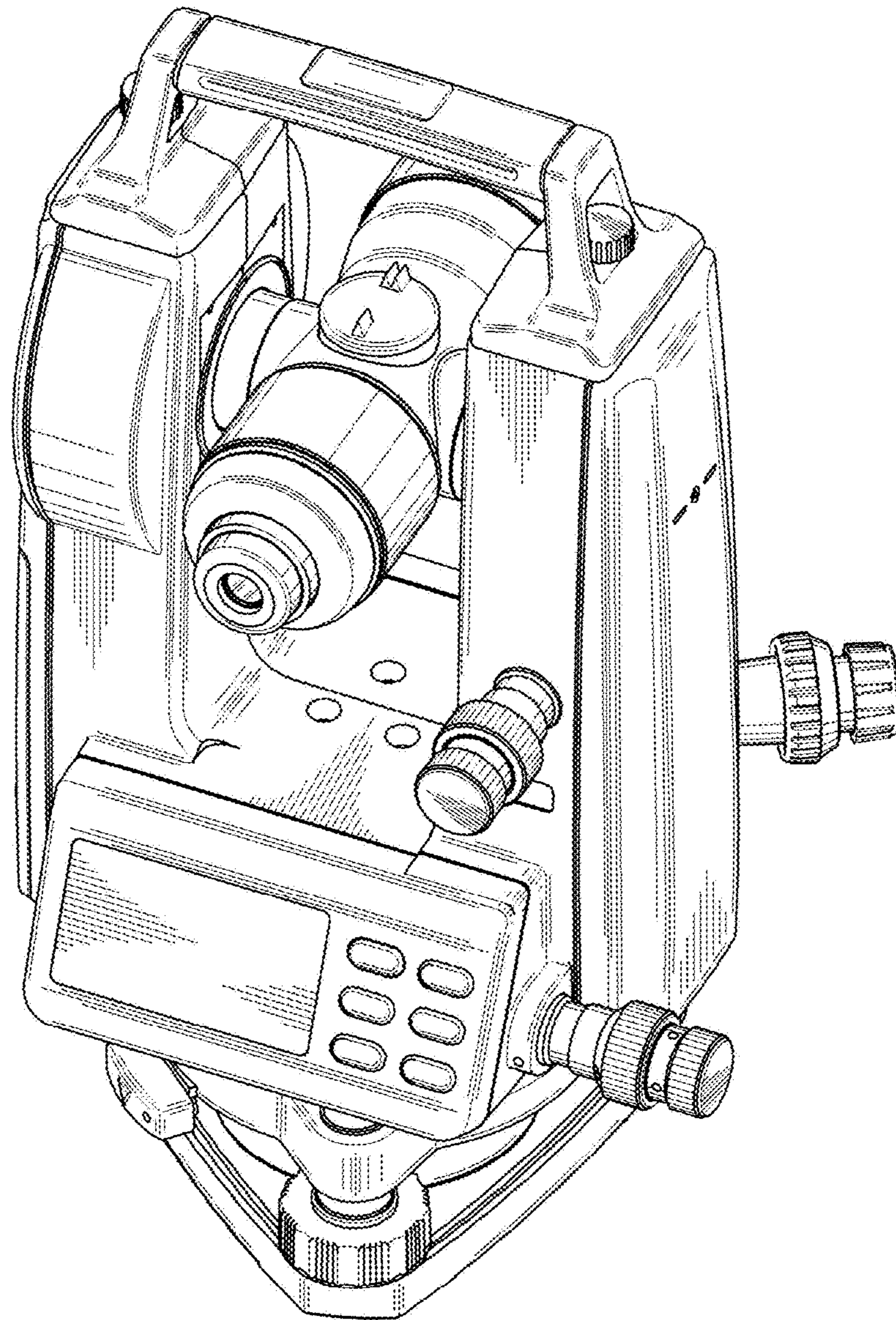




FIG. 2

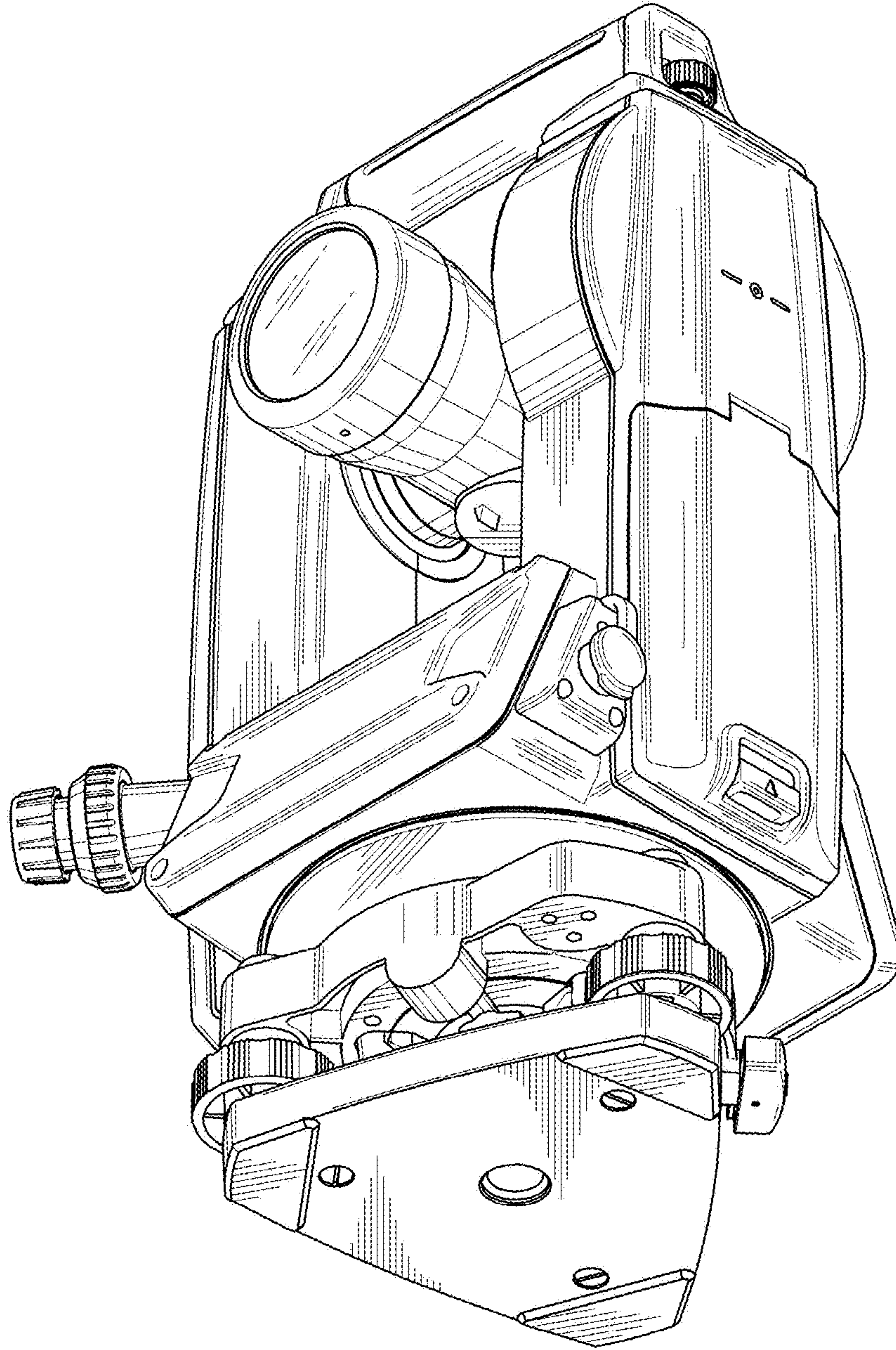
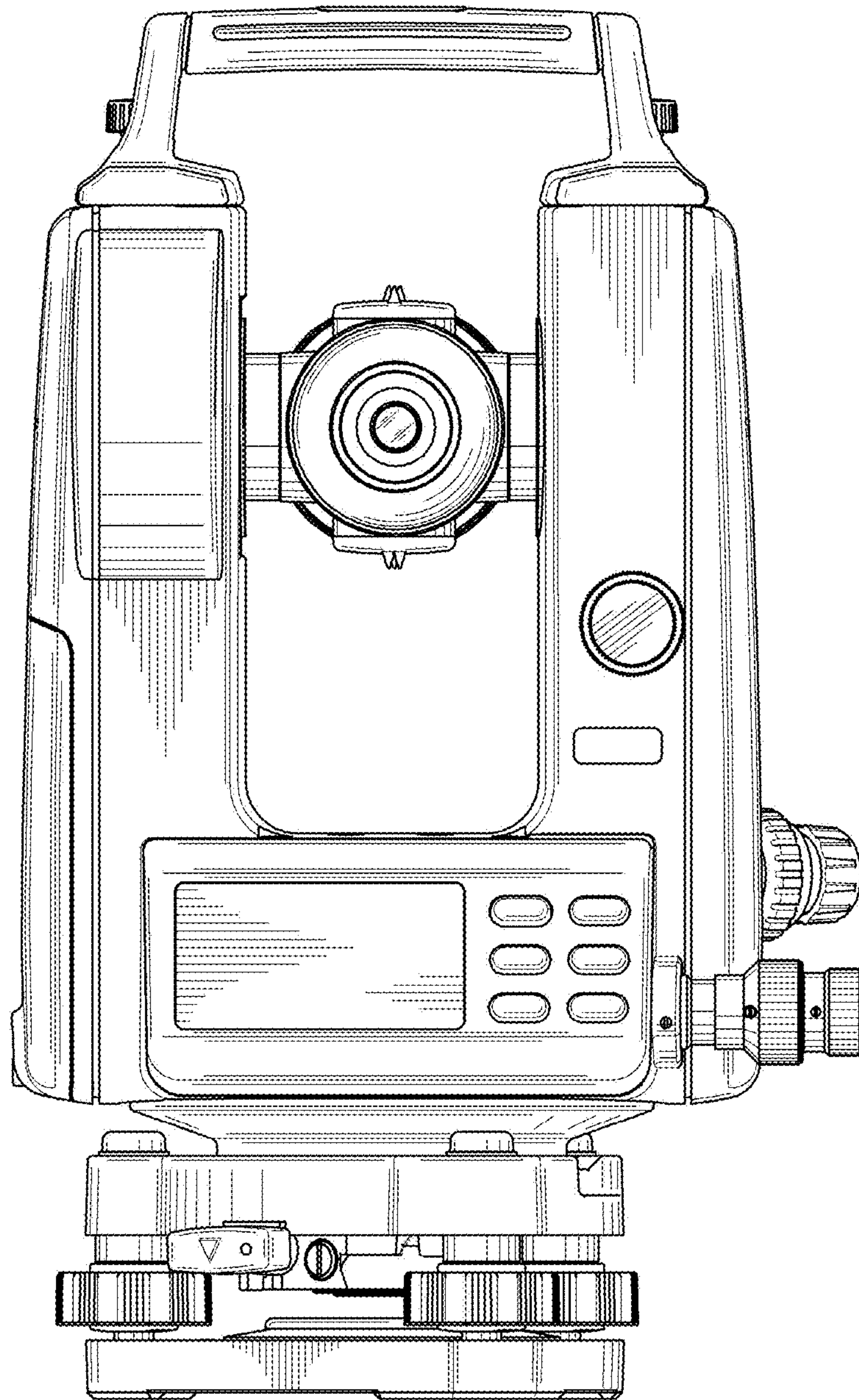
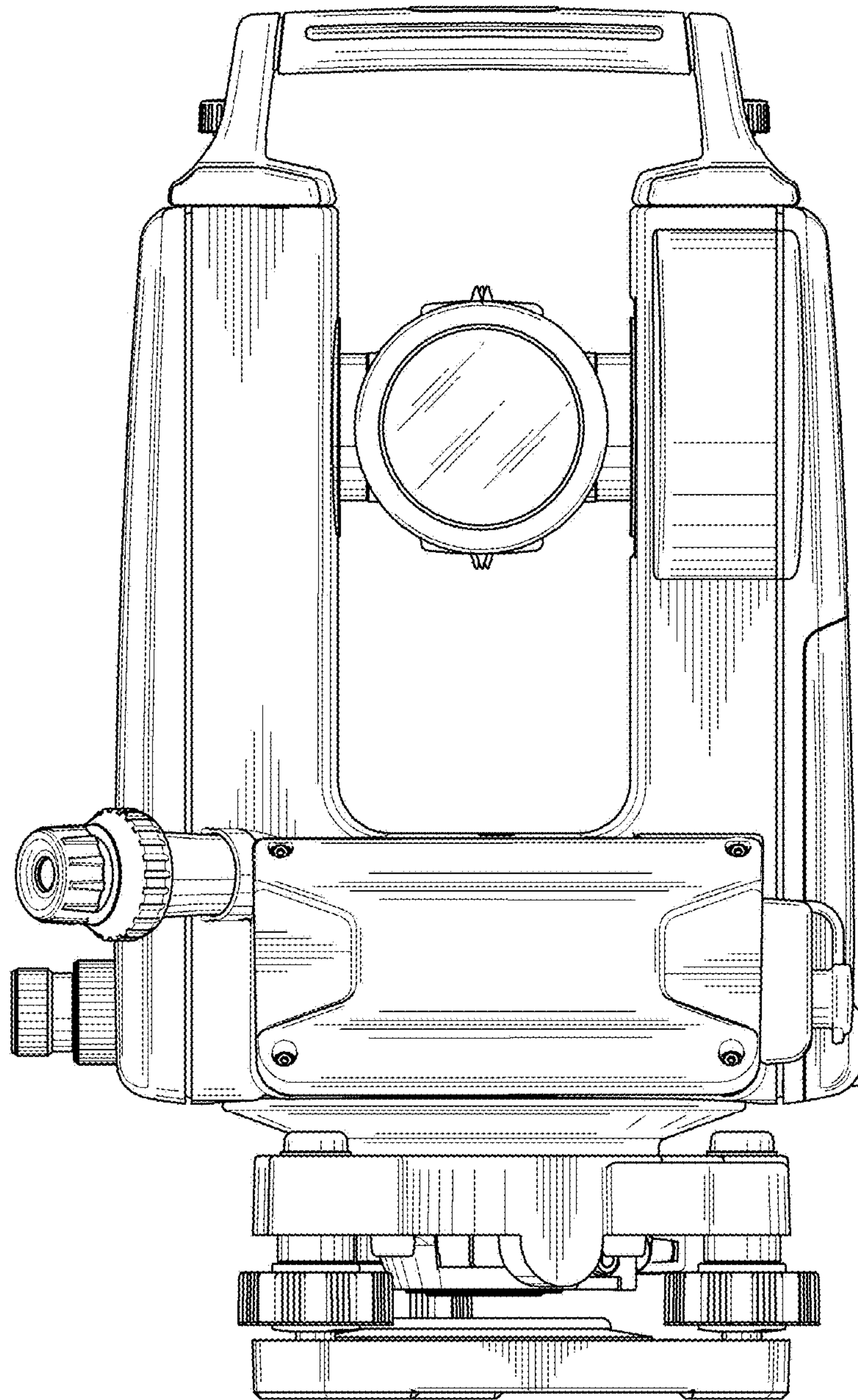


FIG. 3

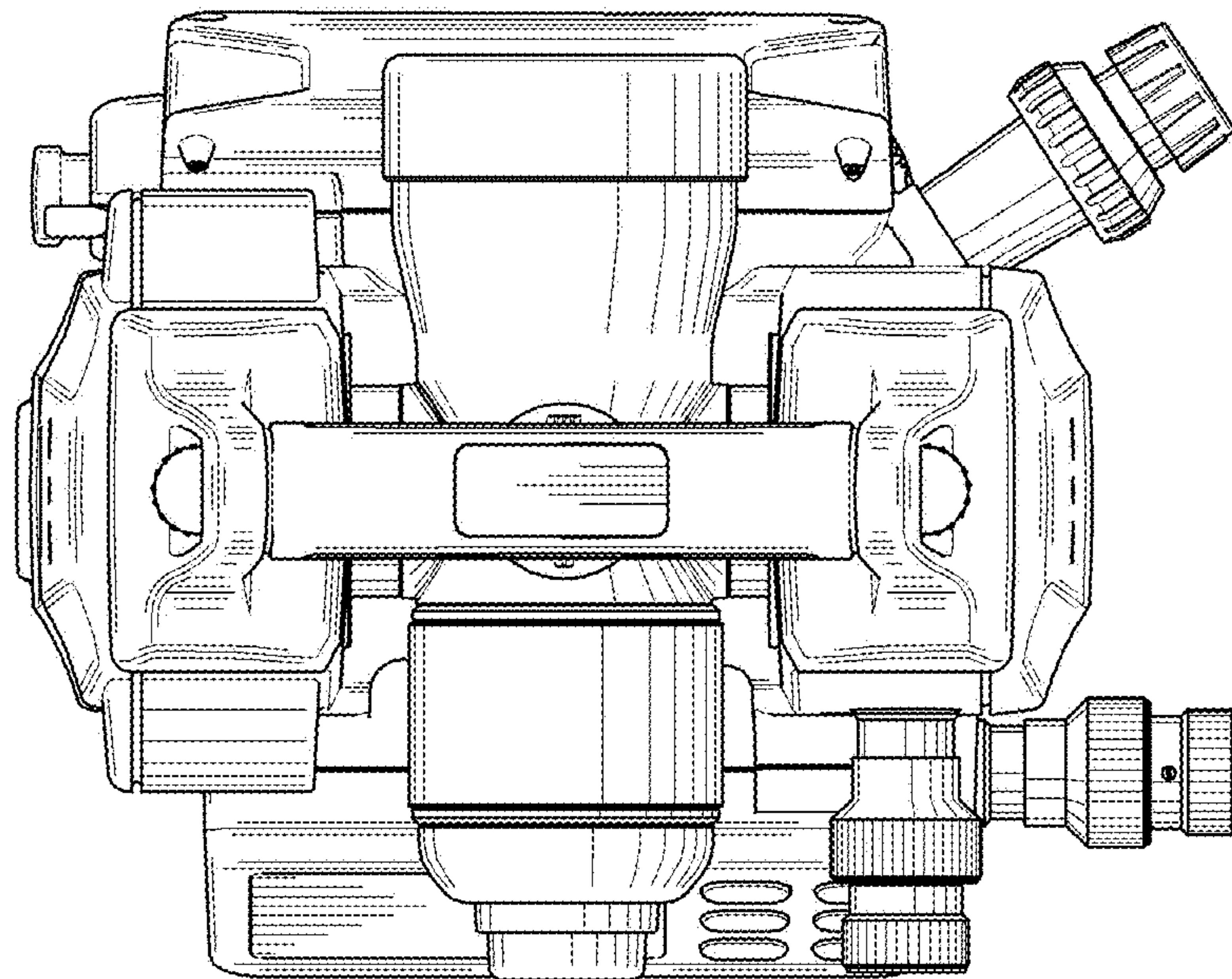


F I G. 4

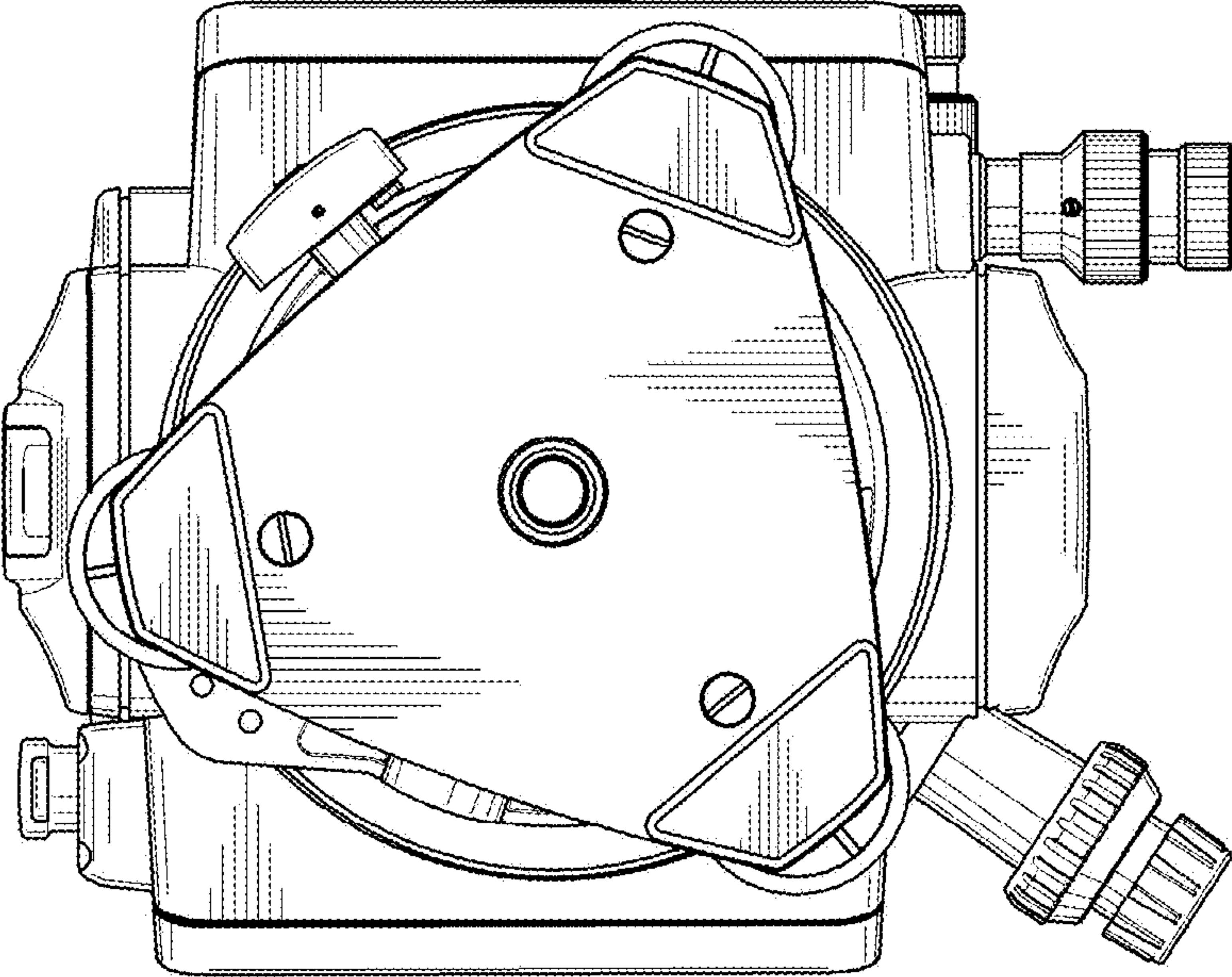




F I G. 5



F I G. 6





F I G. 7

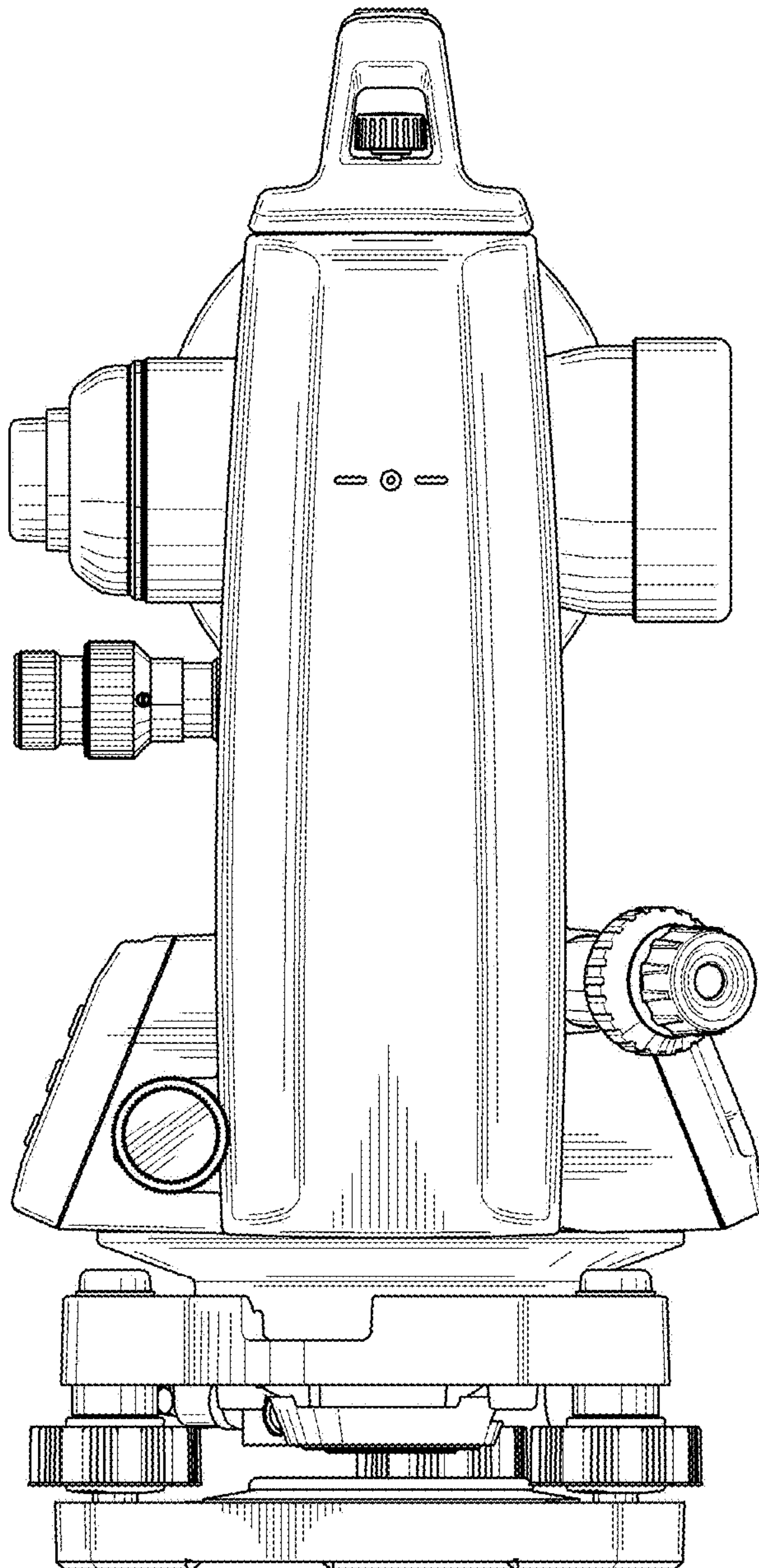


FIG. 8

