



US00D638089S

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

(10) **Patent No.:** **US D638,089 S**

(45) **Date of Patent:** **\*\* May 17, 2011**

(54) **QUICK DISCONNECT APPARATUS**

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(73) Assignee: **Leapers, Inc.**, Livonia, MI (US)

(\*\*) Term: **14 Years**

(21) Appl. No.: **29/359,328**

(22) Filed: **Apr. 8, 2010**

(51) **LOC (9) Cl.** ..... **22-01**

(52) **U.S. Cl.** ..... **D22/109**

(58) **Field of Classification Search** ..... D22/108-110,  
D22/199; D16/132, 130, 133, 330, 134;  
359/399, 823, 744; 42/111, 133, 119, 122  
See application file for complete search history.

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and Cohn LLP

(57) **CLAIM**

The ornamental design for quick disconnect apparatus, as shown and described.

**DESCRIPTION**

FIG. 1 is an isometric view of a first embodiment of the quick disconnect apparatus of the present invention;

FIG. 2 is a front elevational view of the quick disconnect apparatus of FIG. 1;

FIG. 3 is a back elevational view of the quick disconnect apparatus of FIG. 1;

FIG. 4 is a left side elevational view of the quick disconnect apparatus of FIG. 1;

FIG. 5 is a right side elevational view of the quick disconnect apparatus of FIG. 1;

FIG. 6 is a top view of the quick disconnect apparatus of FIG. 1;

FIG. 7 is a bottom view of the quick disconnect apparatus of FIG. 1;

FIG. 8 is an isometric view of a second embodiment of the quick disconnect apparatus of the present invention;

FIG. 9 is a front elevational view of the quick disconnect apparatus of FIG. 8;

FIG. 10 is a back elevational view of the quick disconnect apparatus of FIG. 8;

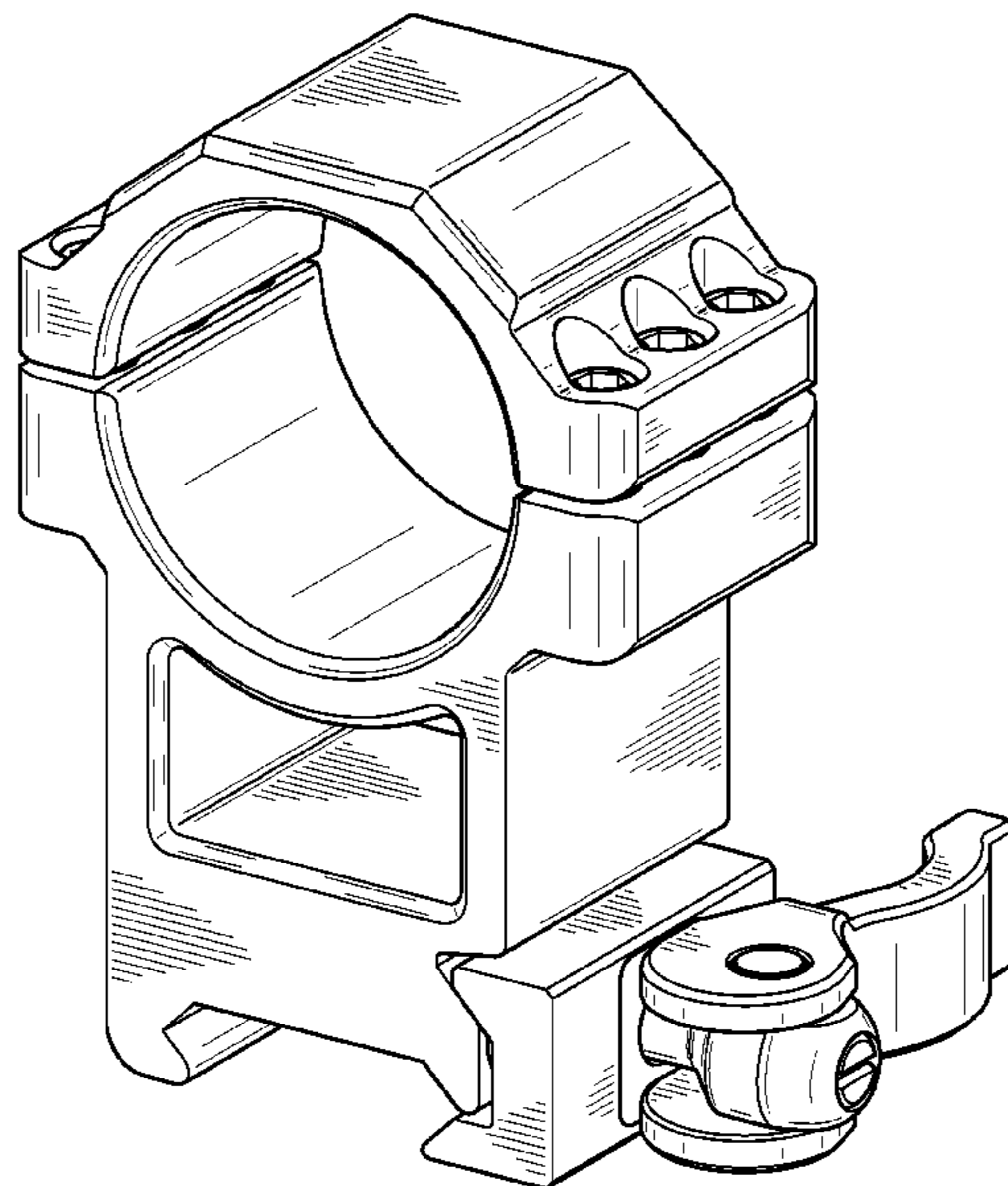
FIG. 11 is a left side elevational view of the quick disconnect apparatus of FIG. 8;

FIG. 12 is a right side elevational view of the quick disconnect apparatus of FIG. 8;

FIG. 13 is a top view of the quick disconnect apparatus of FIG. 8; and,

FIG. 14 is a bottom view of the quick disconnect apparatus of FIG. 8.

**1 Claim, 12 Drawing Sheets**



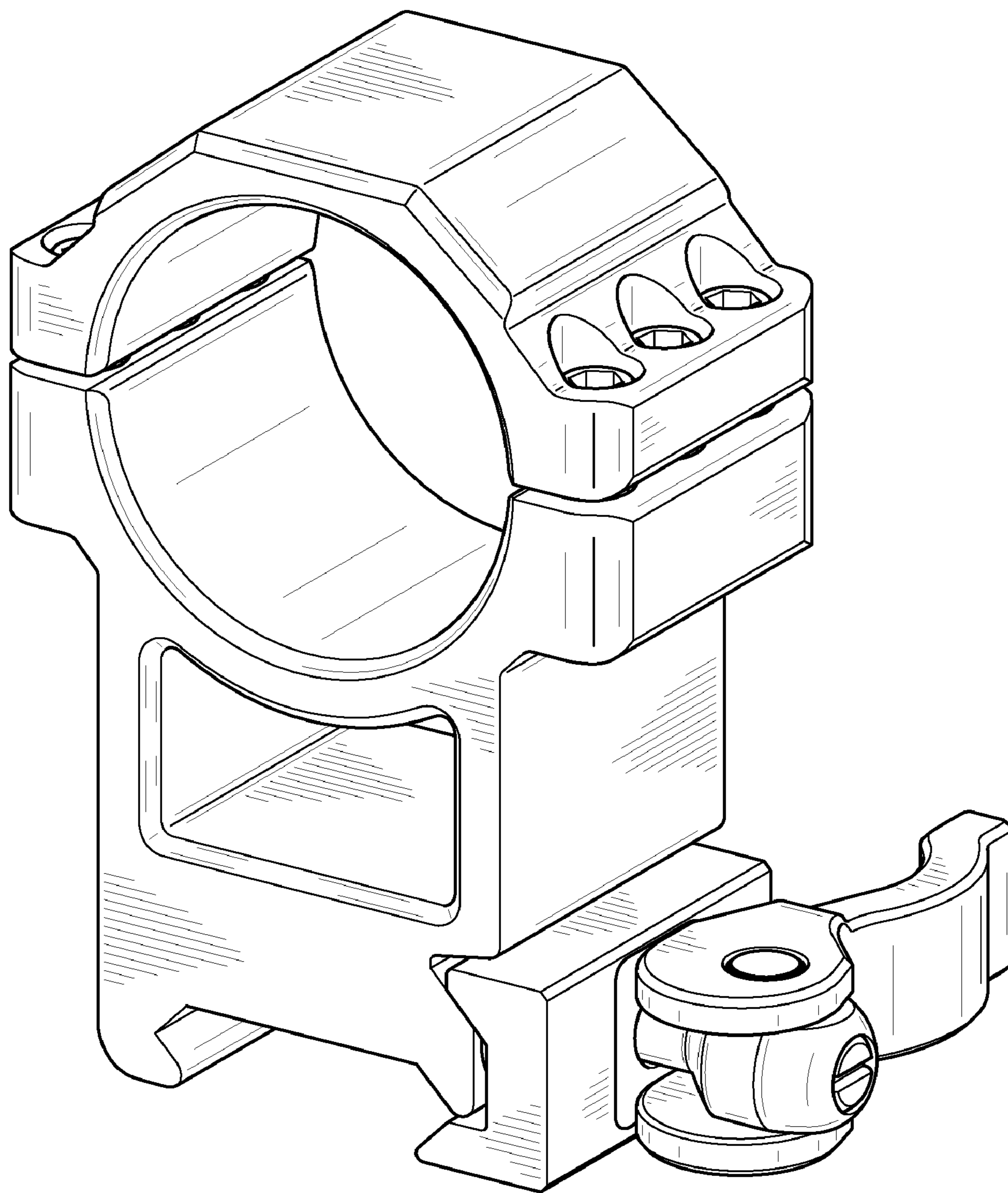


FIG. 1

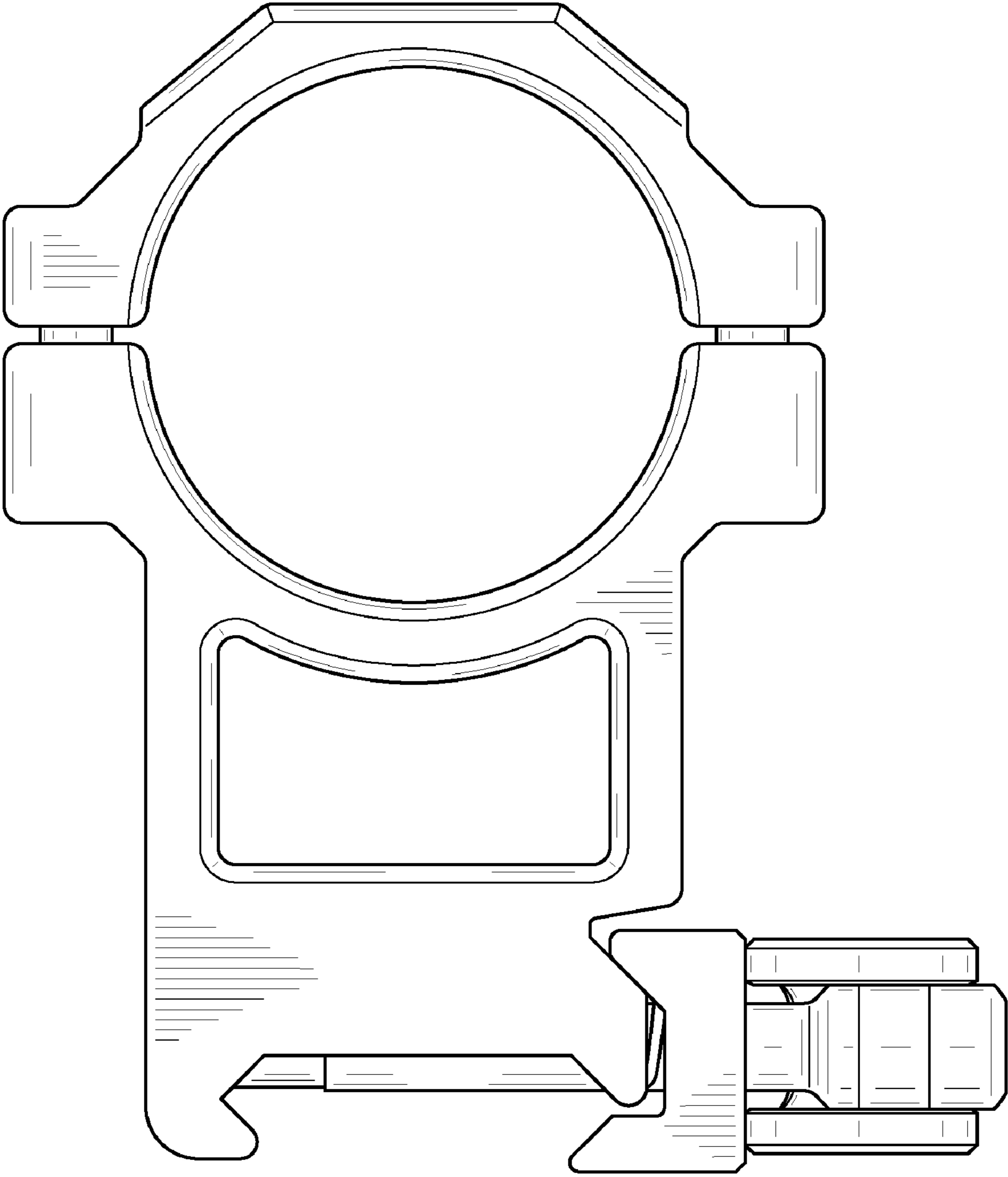


FIG. 2

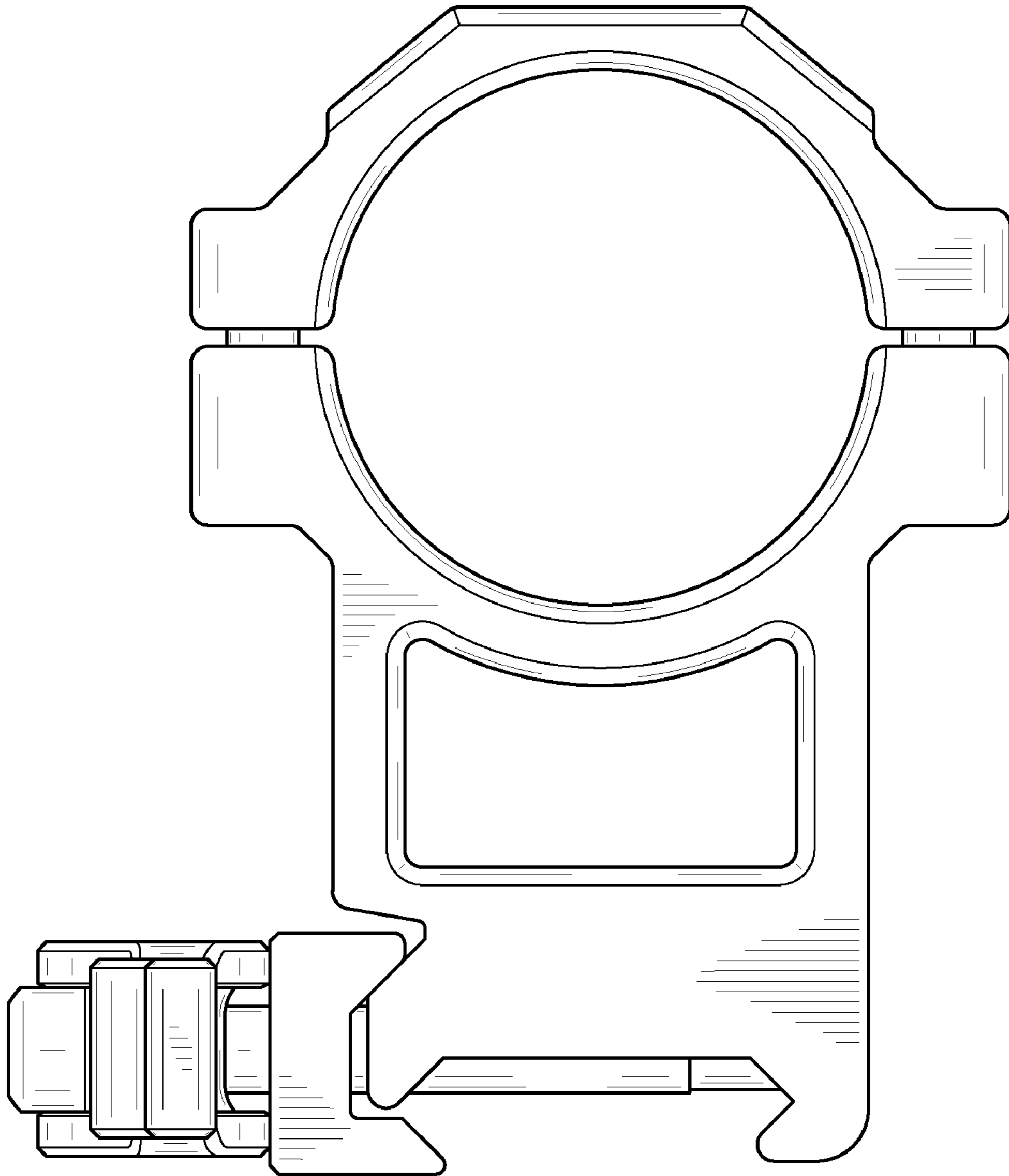


FIG. 3

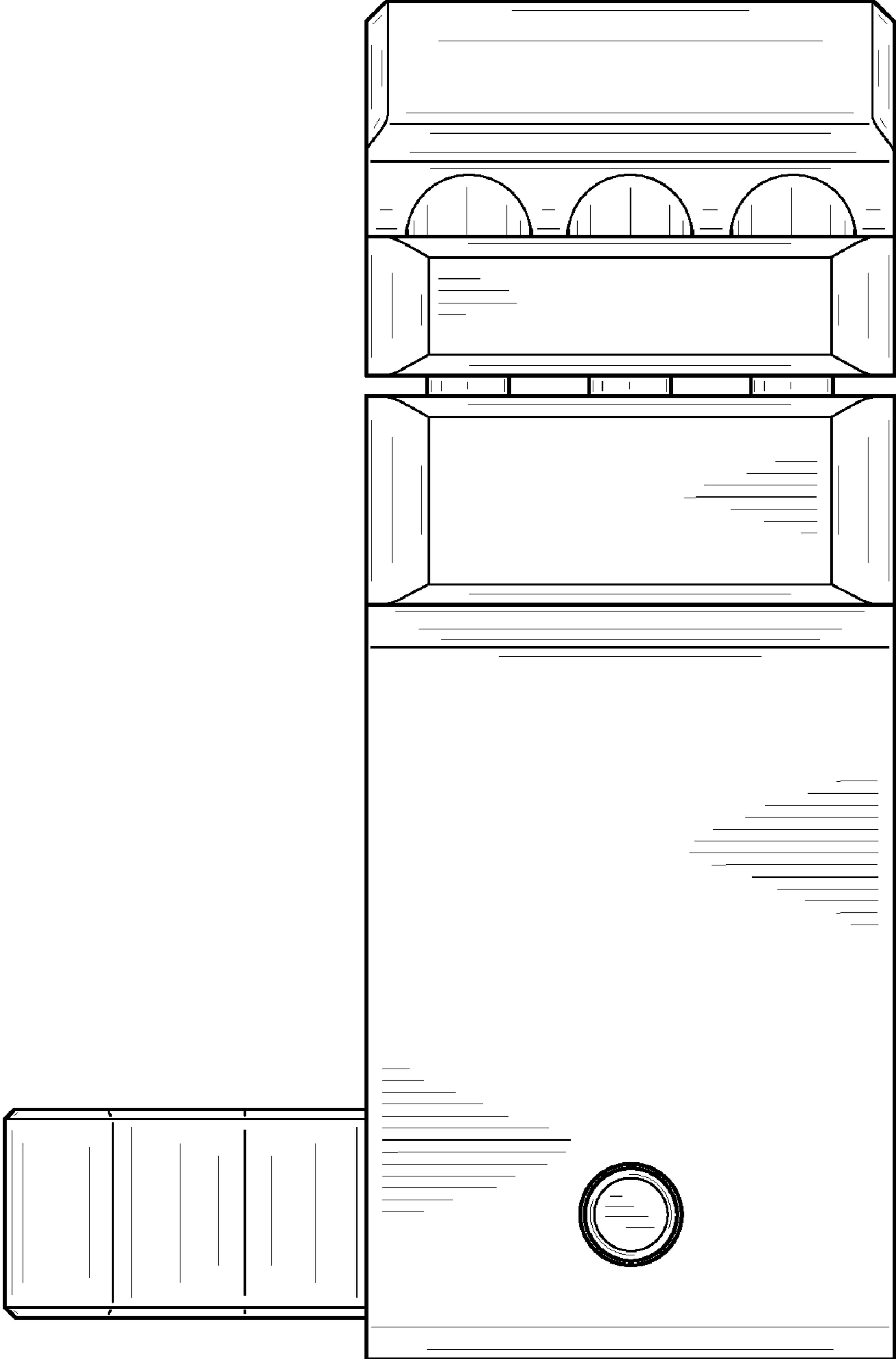


FIG. 4



FIG. 5

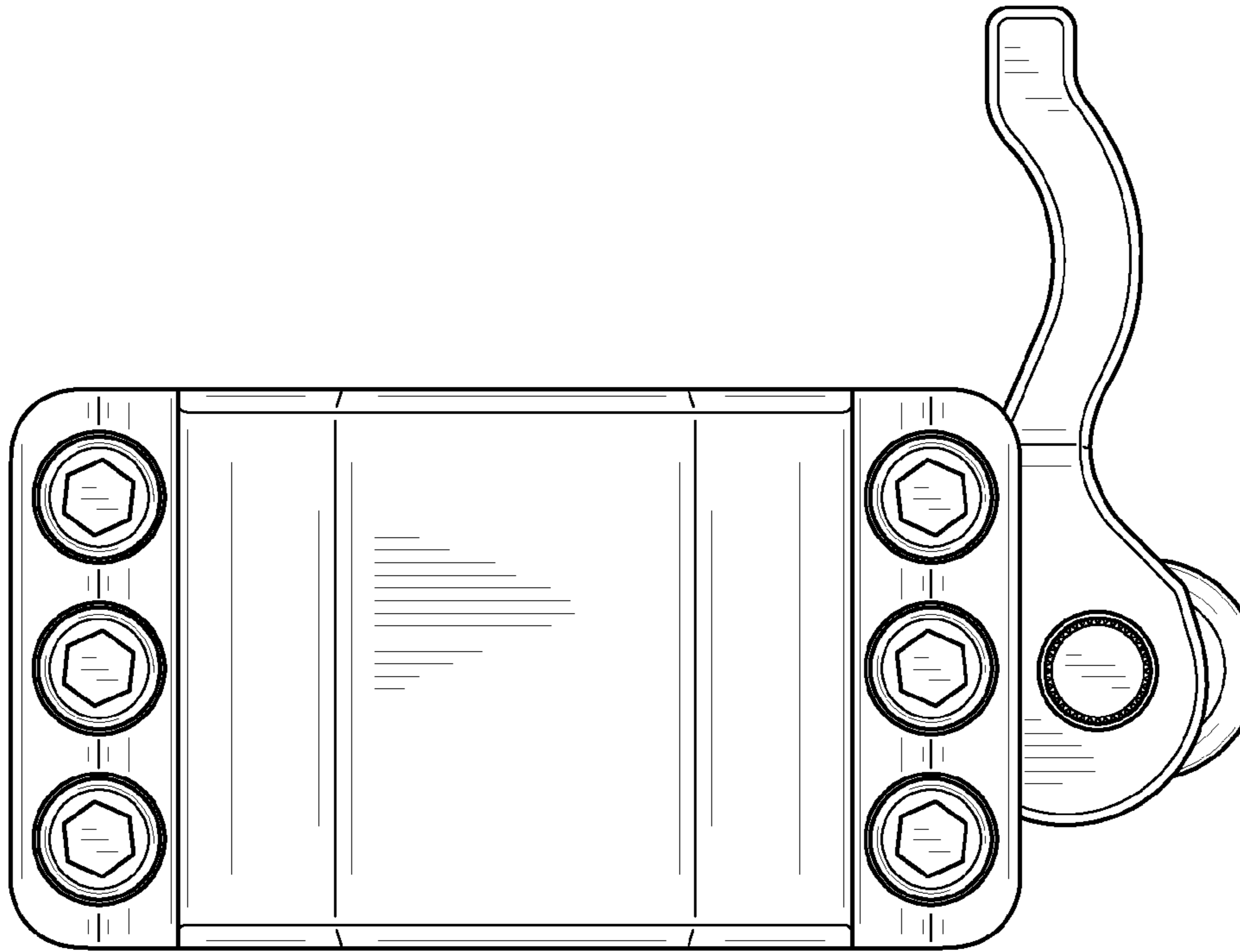


FIG. 6

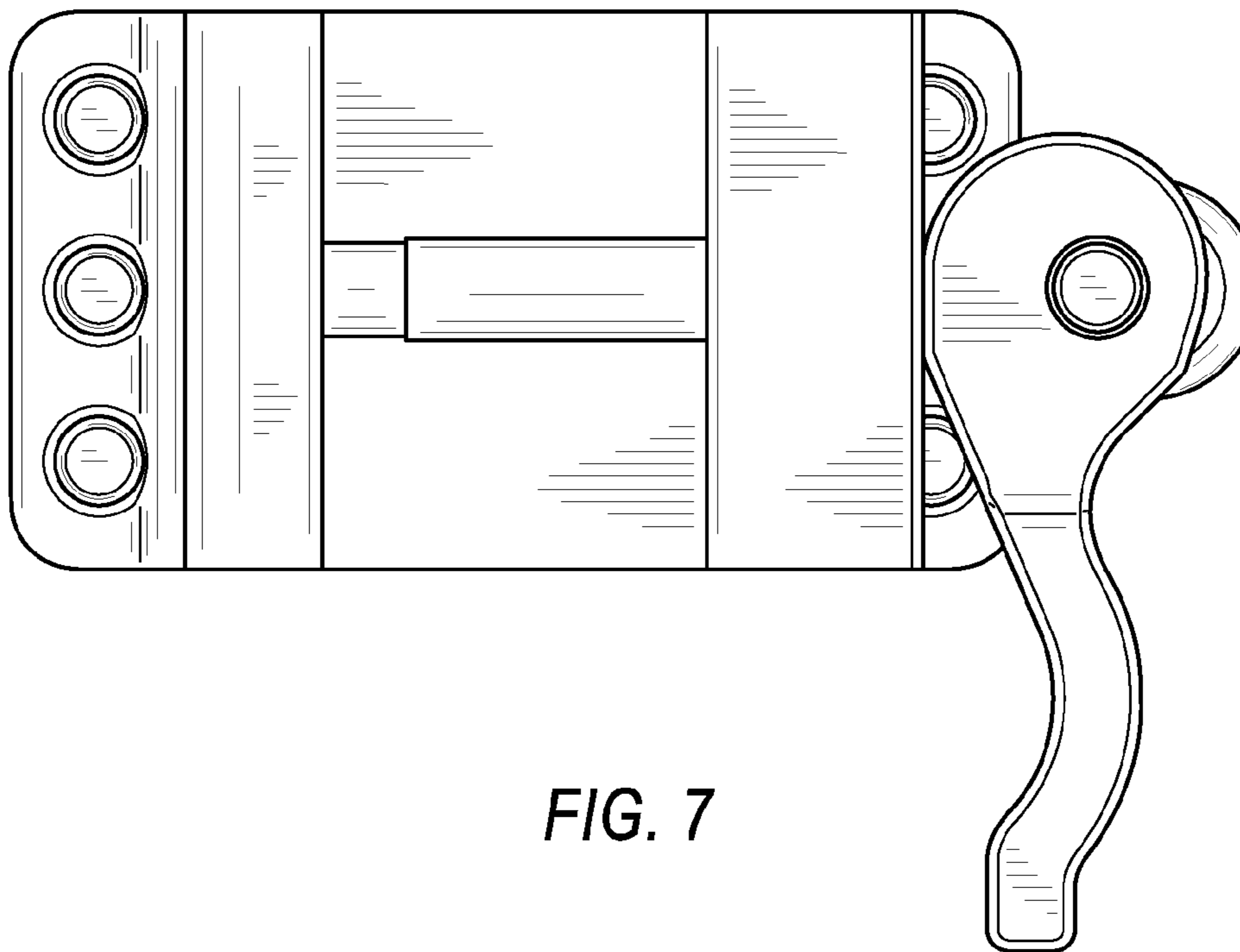


FIG. 7

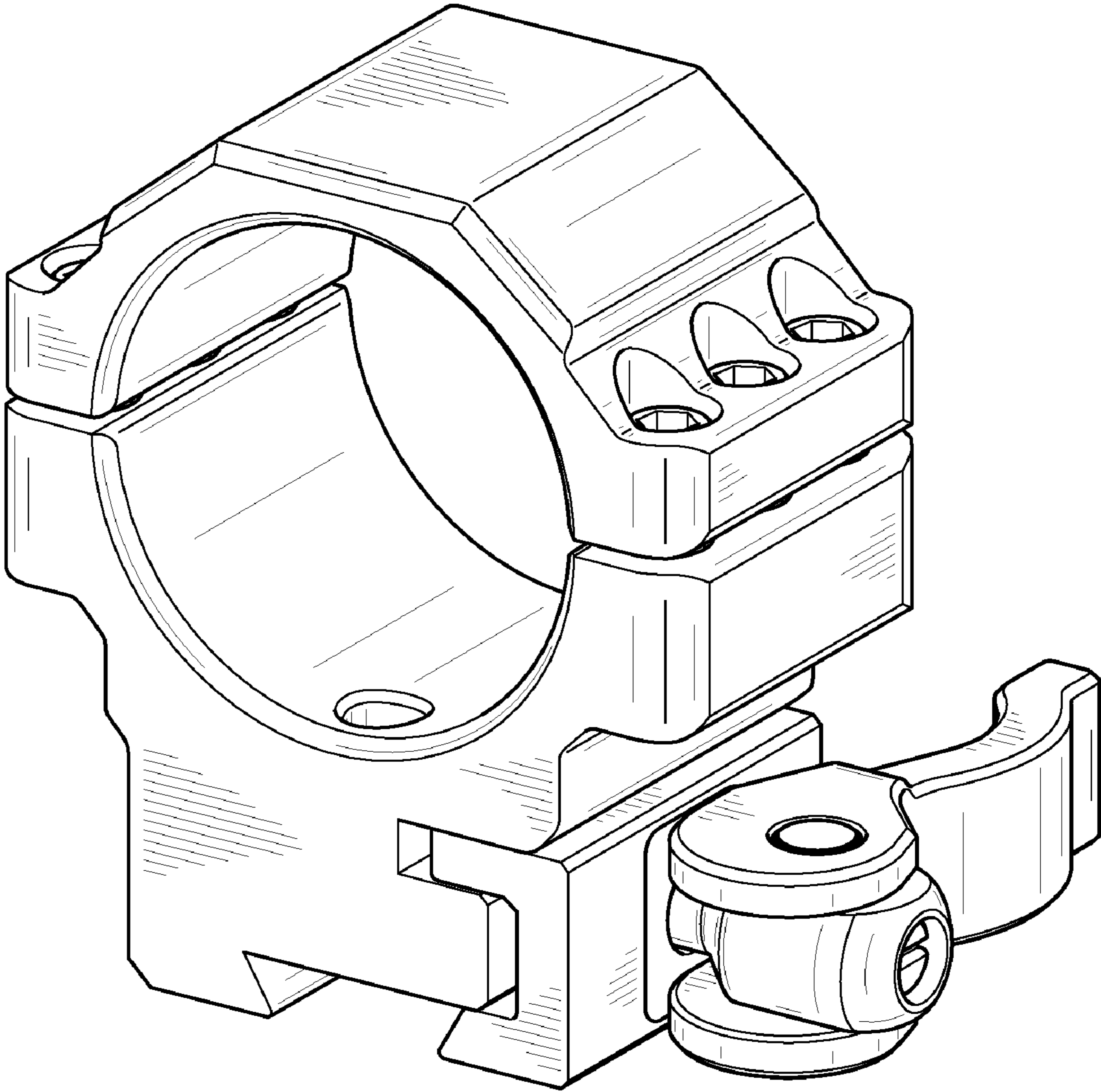
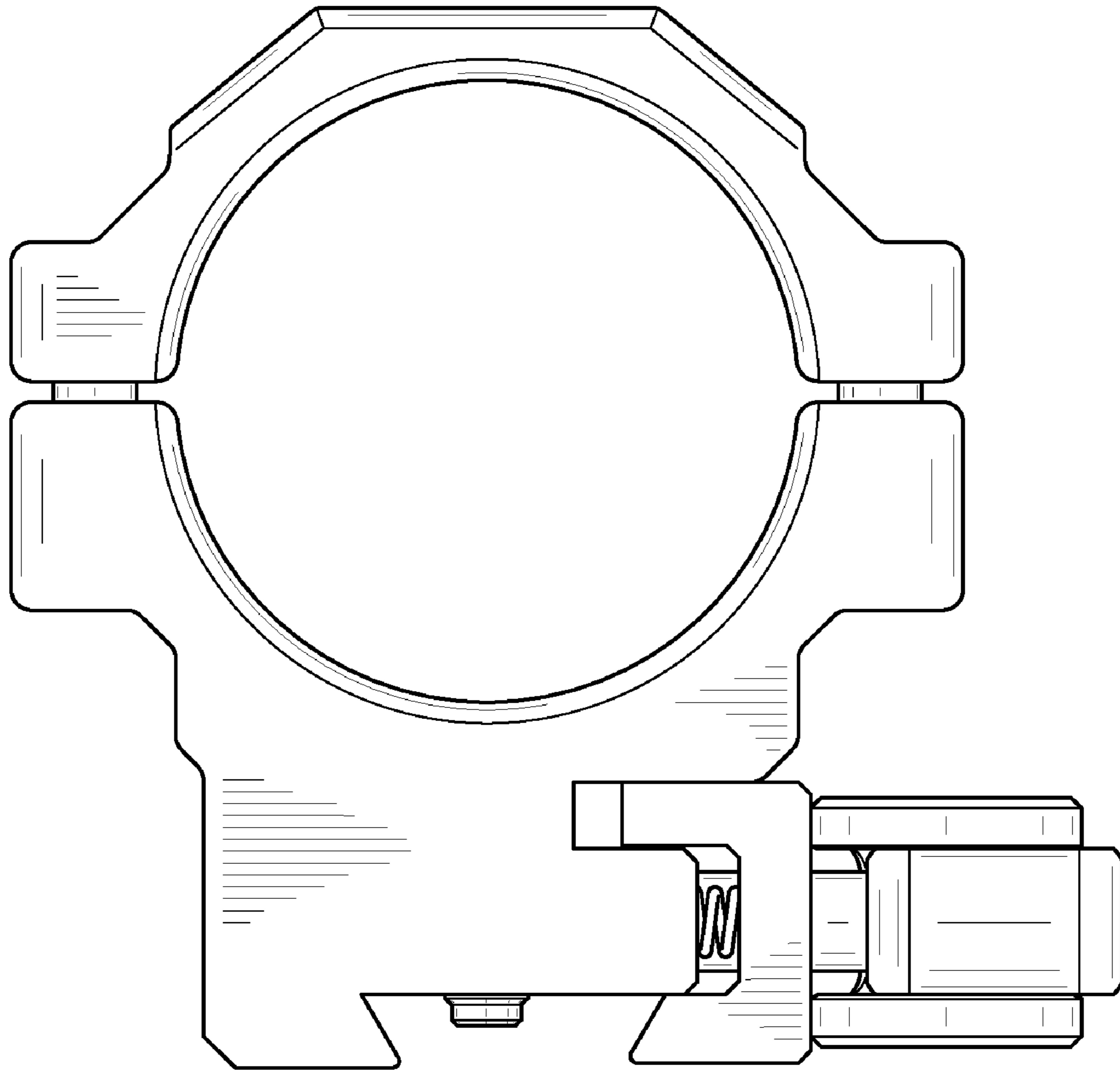


FIG. 8





**FIG. 9**

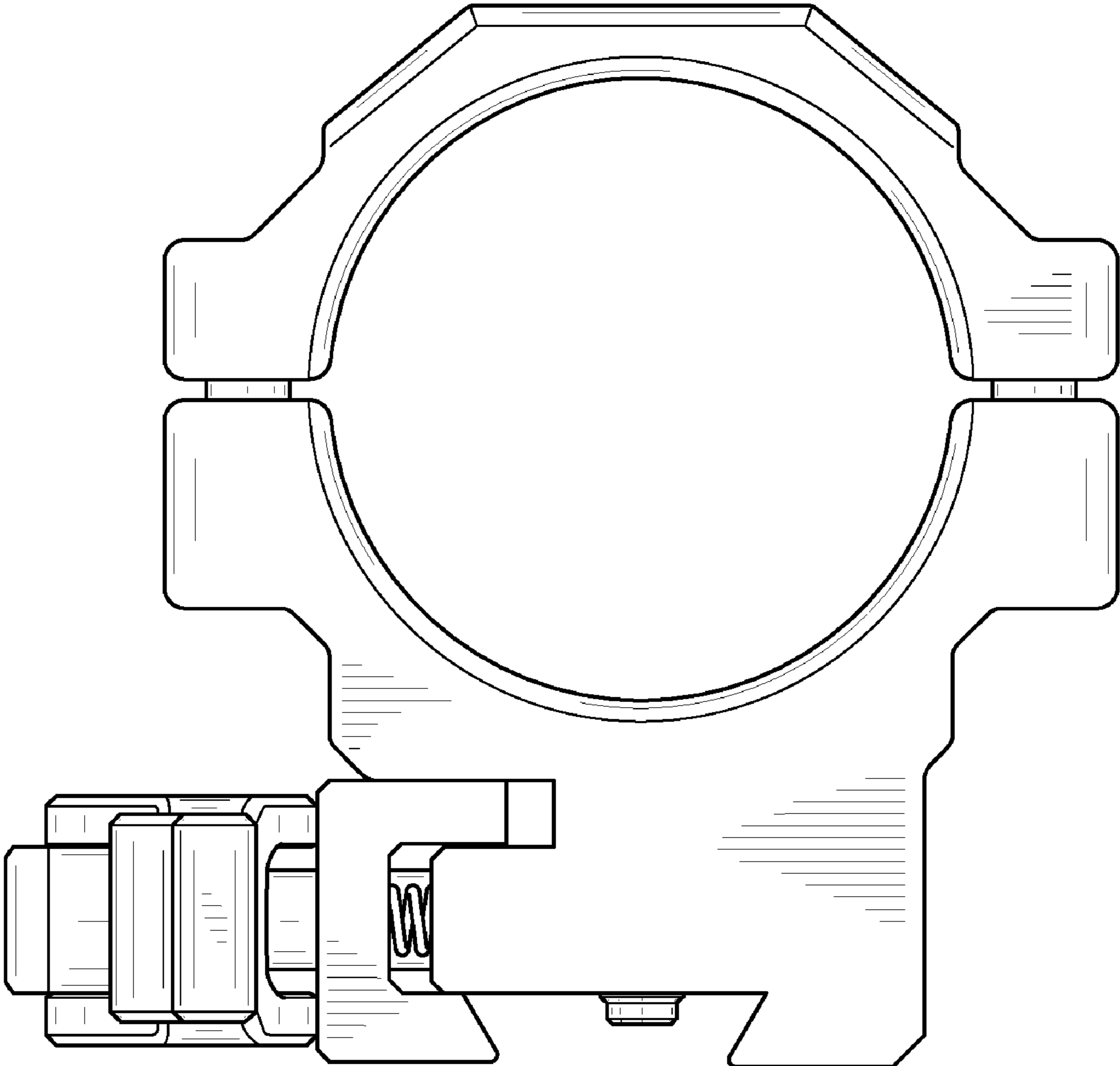
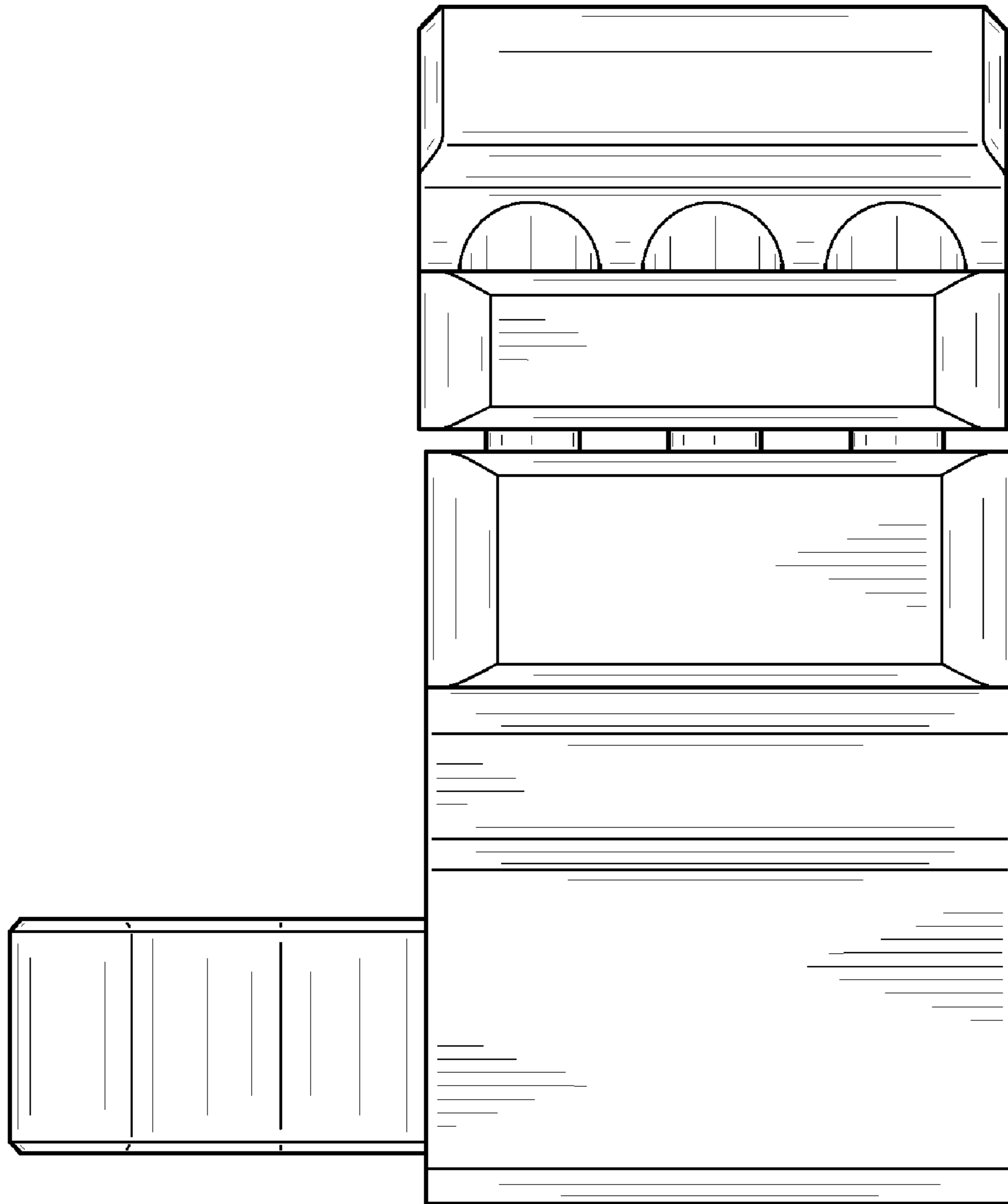
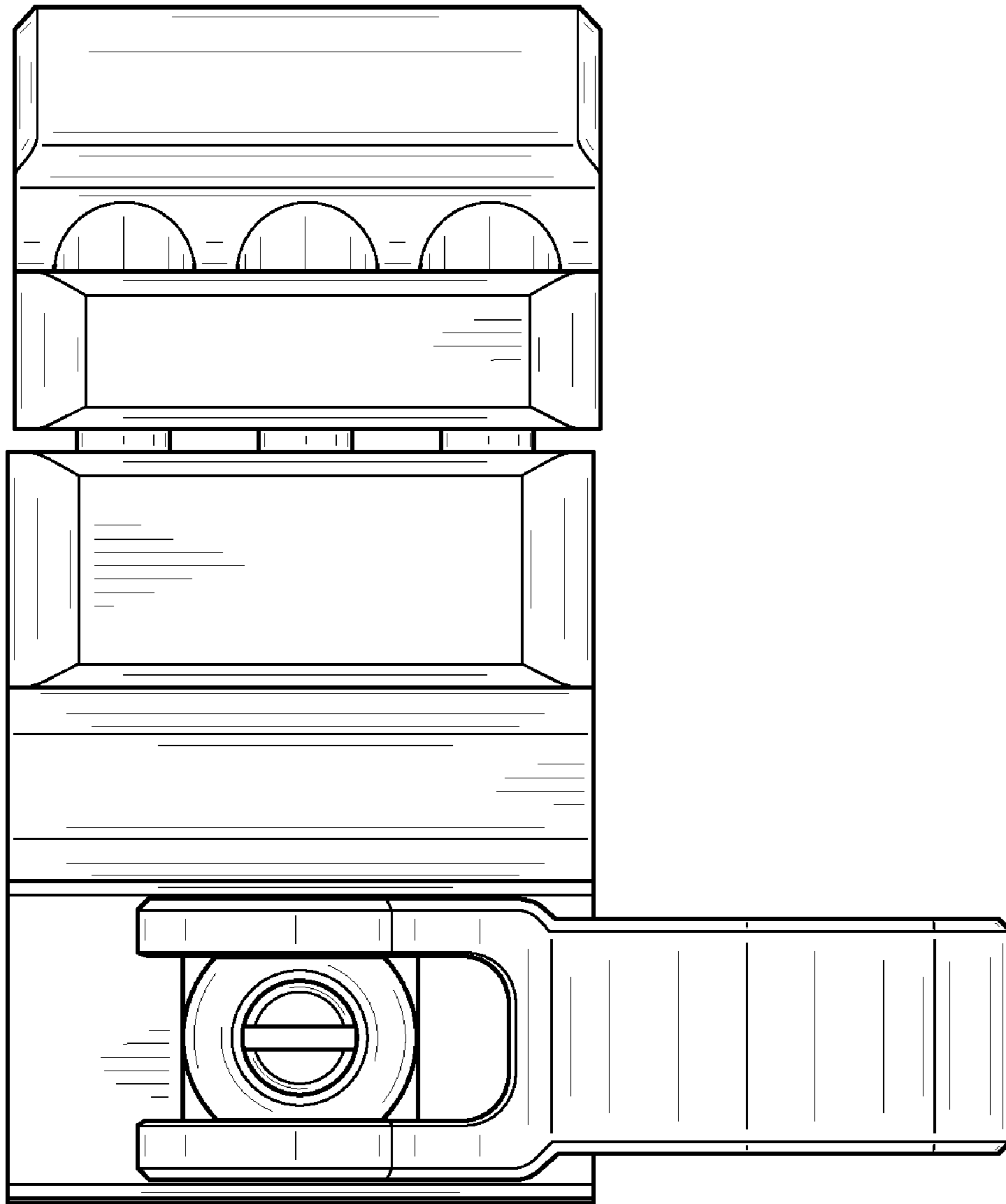


FIG. 10



**FIG. 11**



**FIG. 12**

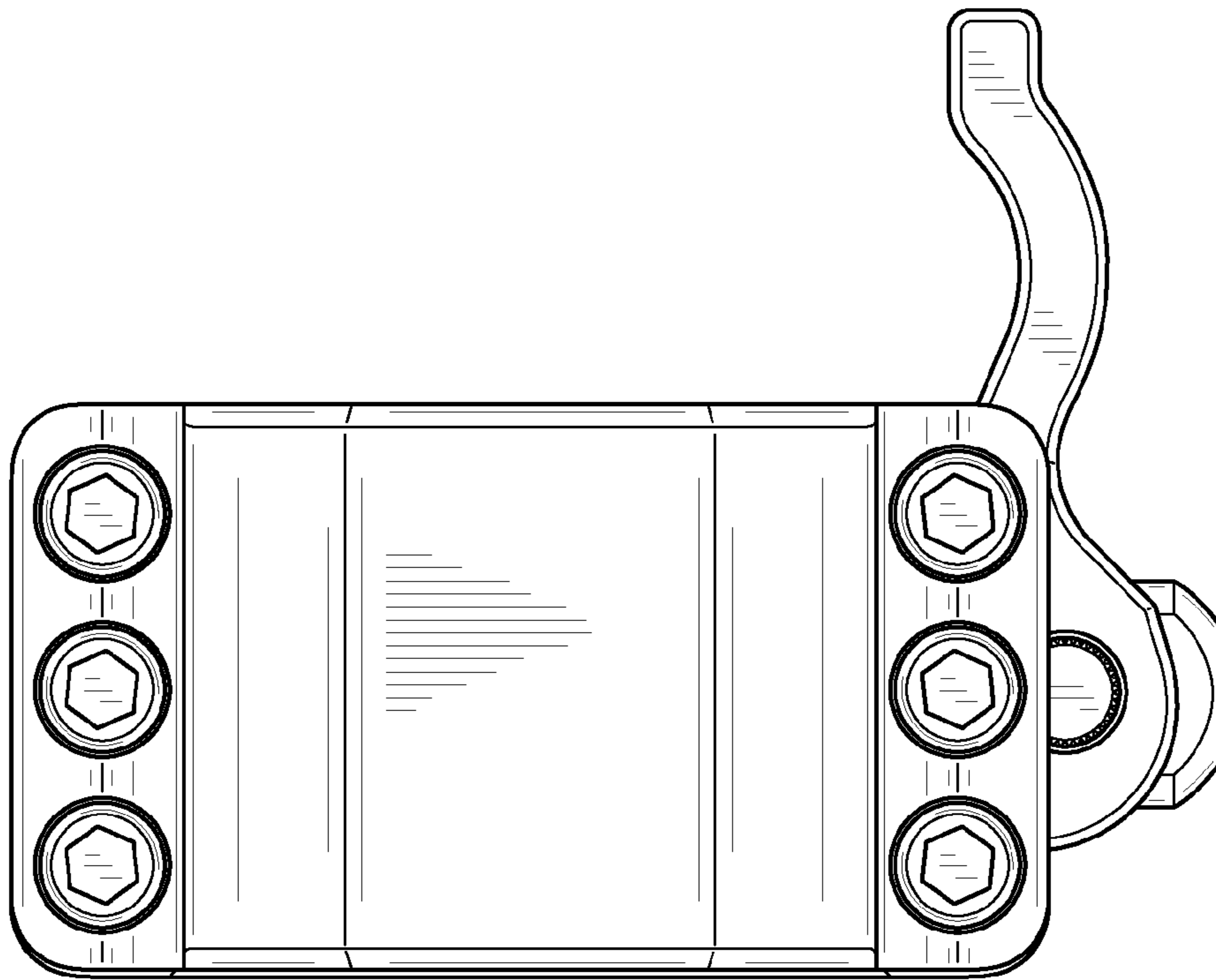


FIG. 13

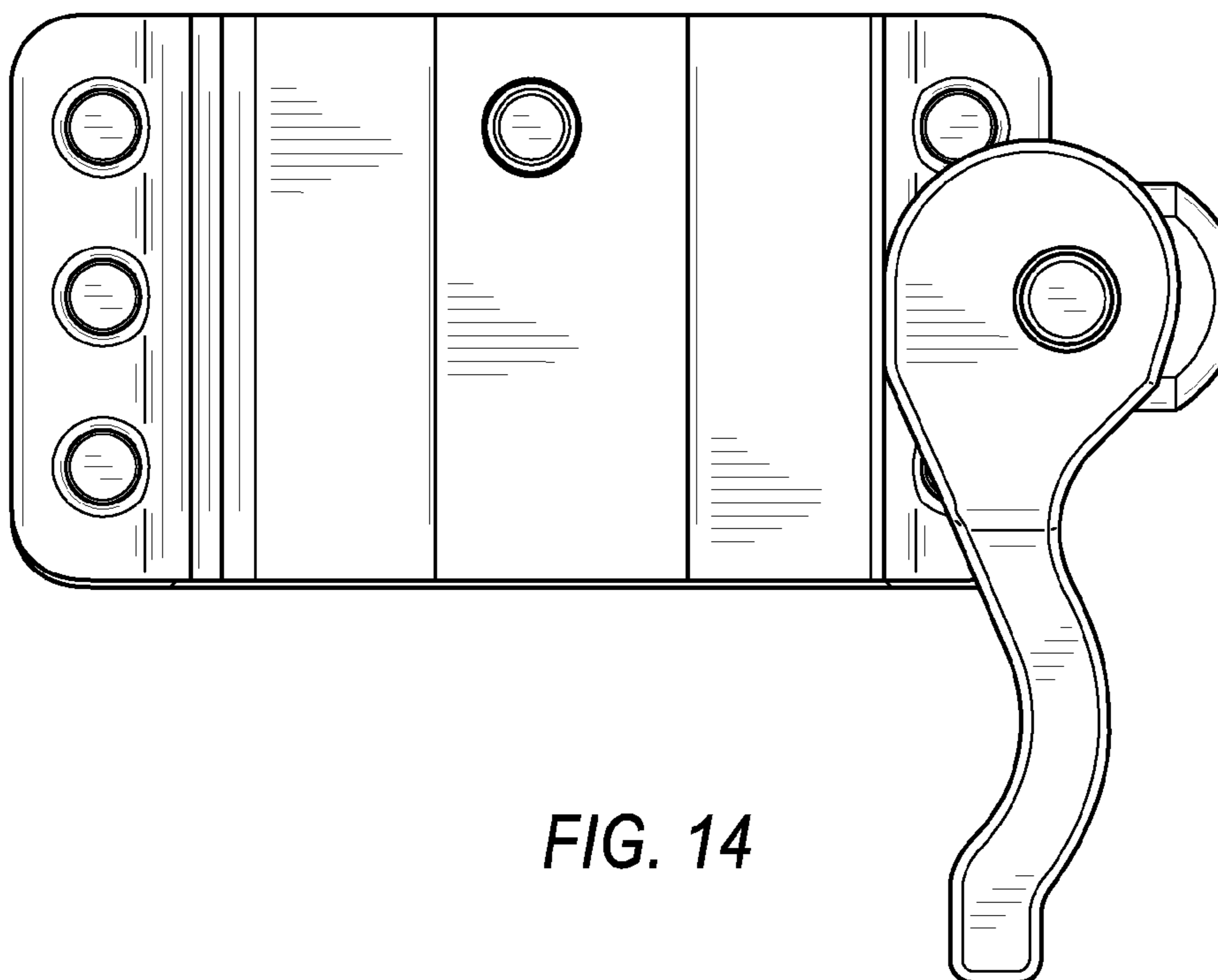


FIG. 14