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(12) **United States Design Patent**  
**Guzman et al.**

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(45) **Date of Patent: \*\* May 18, 2021**

(54) **MICRO VALVE FOR CONTROLLING PATH OF FLUIDS IN MINIATURIZED CAPILLARY CONNECTIONS**

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(72) Inventors: **Norberto Guzman**, East Brunswick, NJ (US); **Daniel E. Guzman**, East Brunswick, NJ (US)

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

(21) Appl. No.: **29/682,566**

(22) Filed: **Mar. 6, 2019**

(51) **LOC (13) Cl.** ..... **24-01**

(52) **U.S. Cl.**  
USPC ..... **D24/232**

(58) **Field of Classification Search**  
USPC ..... D24/216, 223, 224, 231, 232, 233;  
D10/81  
CPC ..... G01N 27/447; G01N 27/44743; G01N 27/44765; G01N 33/5302; G01N 33/543; B01L 2200/026; B01L 2200/0642; B01L 2200/0663

See application file for complete search history.

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(57) **CLAIM**

We claim, the ornamental design for a micro valve for controlling path of fluids in miniaturized capillary connections, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of a micro valve for controlling path of fluids in miniaturized capillary connections showing our new design;

FIG. 2 is a front view of FIG. 1;

FIG. 3 is a rear view of FIG. 1;

FIG. 4 is a right side view of FIG. 1;

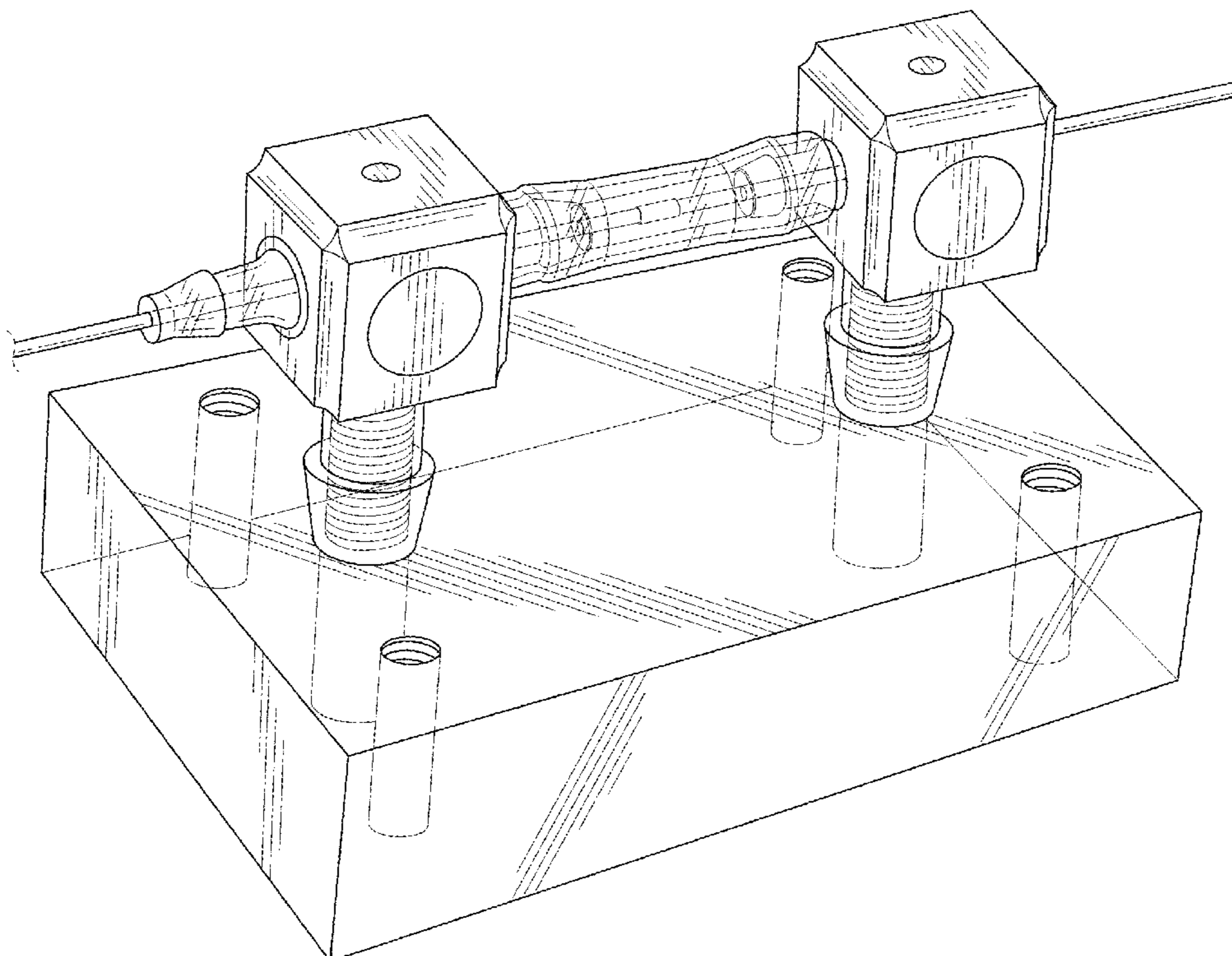
FIG. 5 is a left side view of FIG. 1;

FIG. 6 is a top view of FIG. 1; and,

FIG. 7 is a bottom view of FIG. 1.

The broken lines represent unclaimed subject matter and form no part of the claimed design.

**1 Claim, 6 Drawing Sheets**



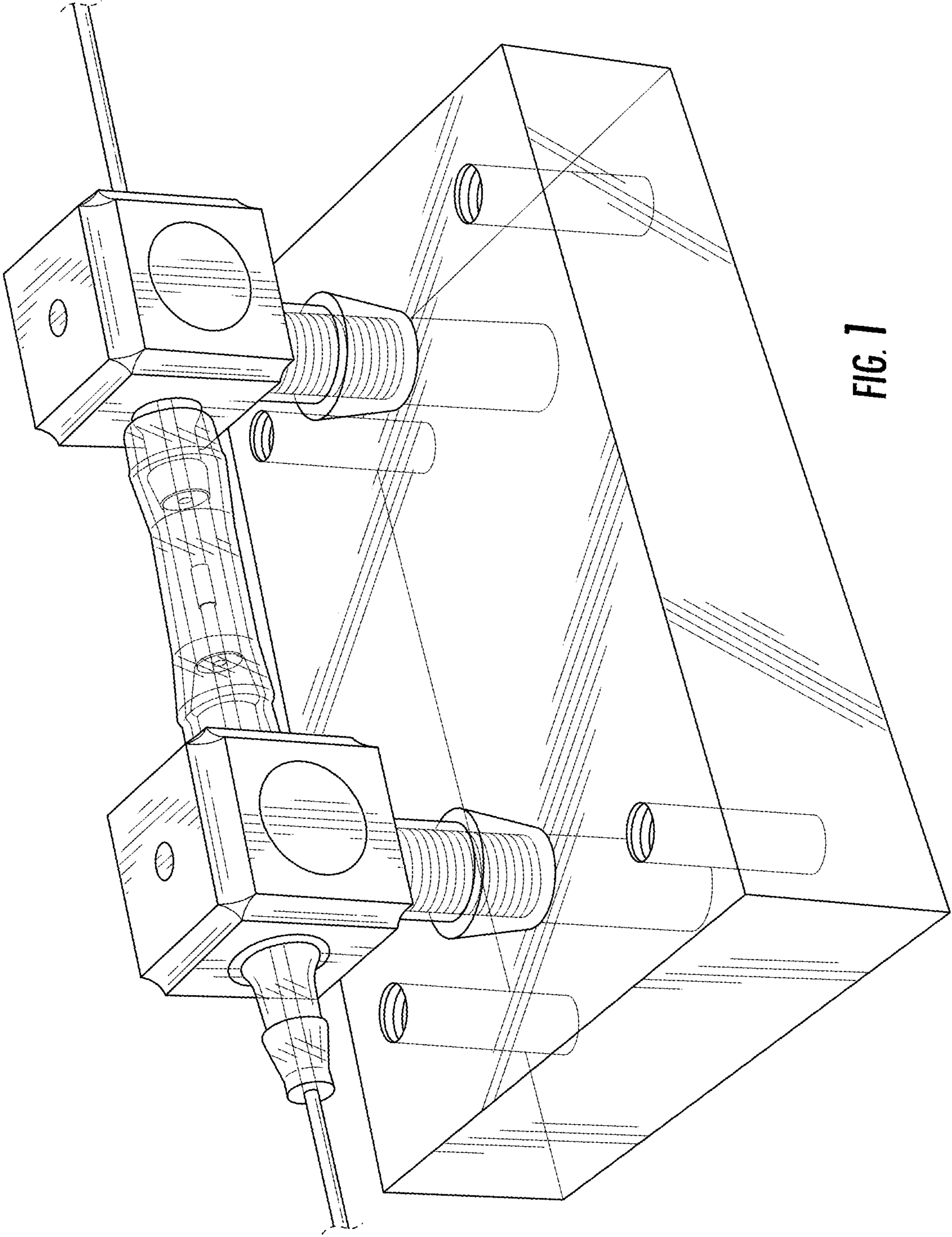


FIG. 1

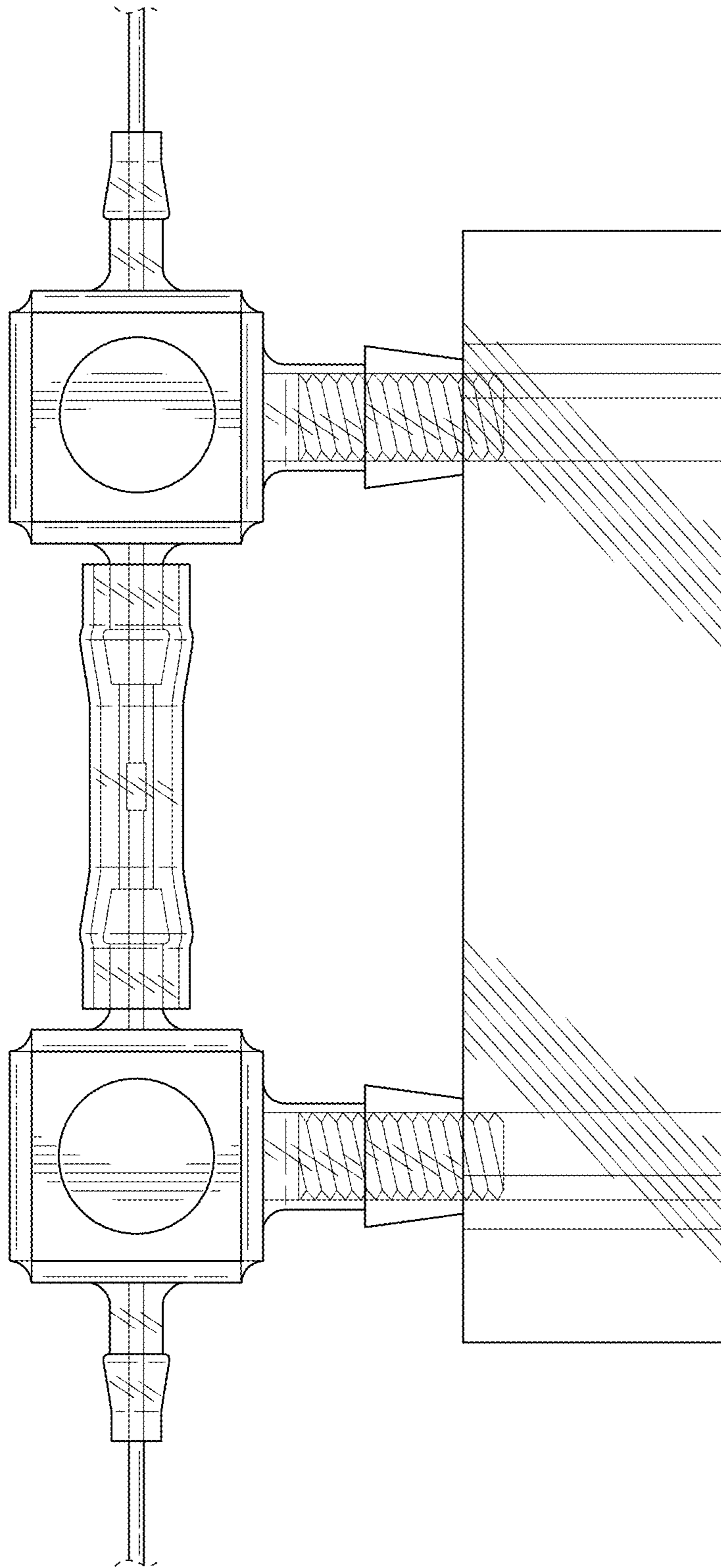


FIG. 2

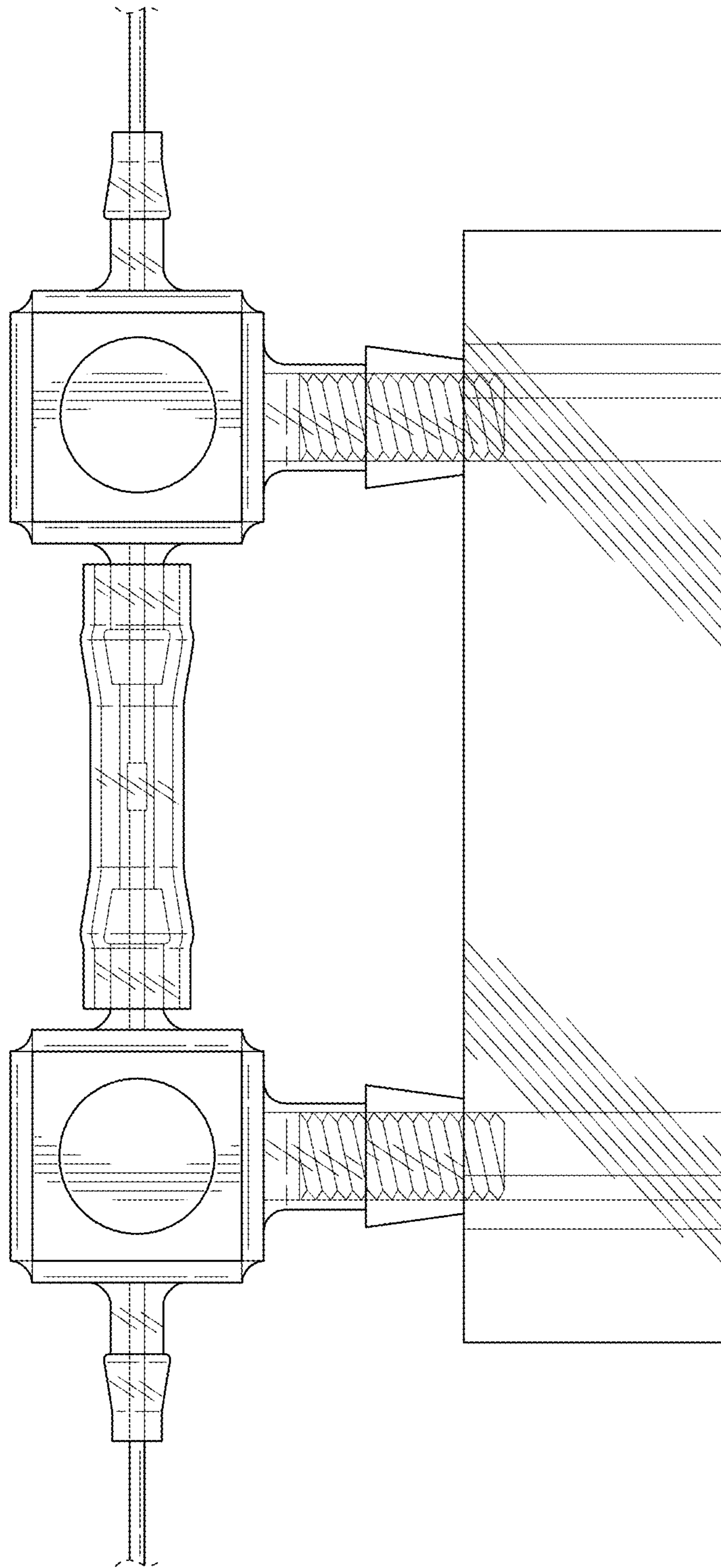


FIG. 3

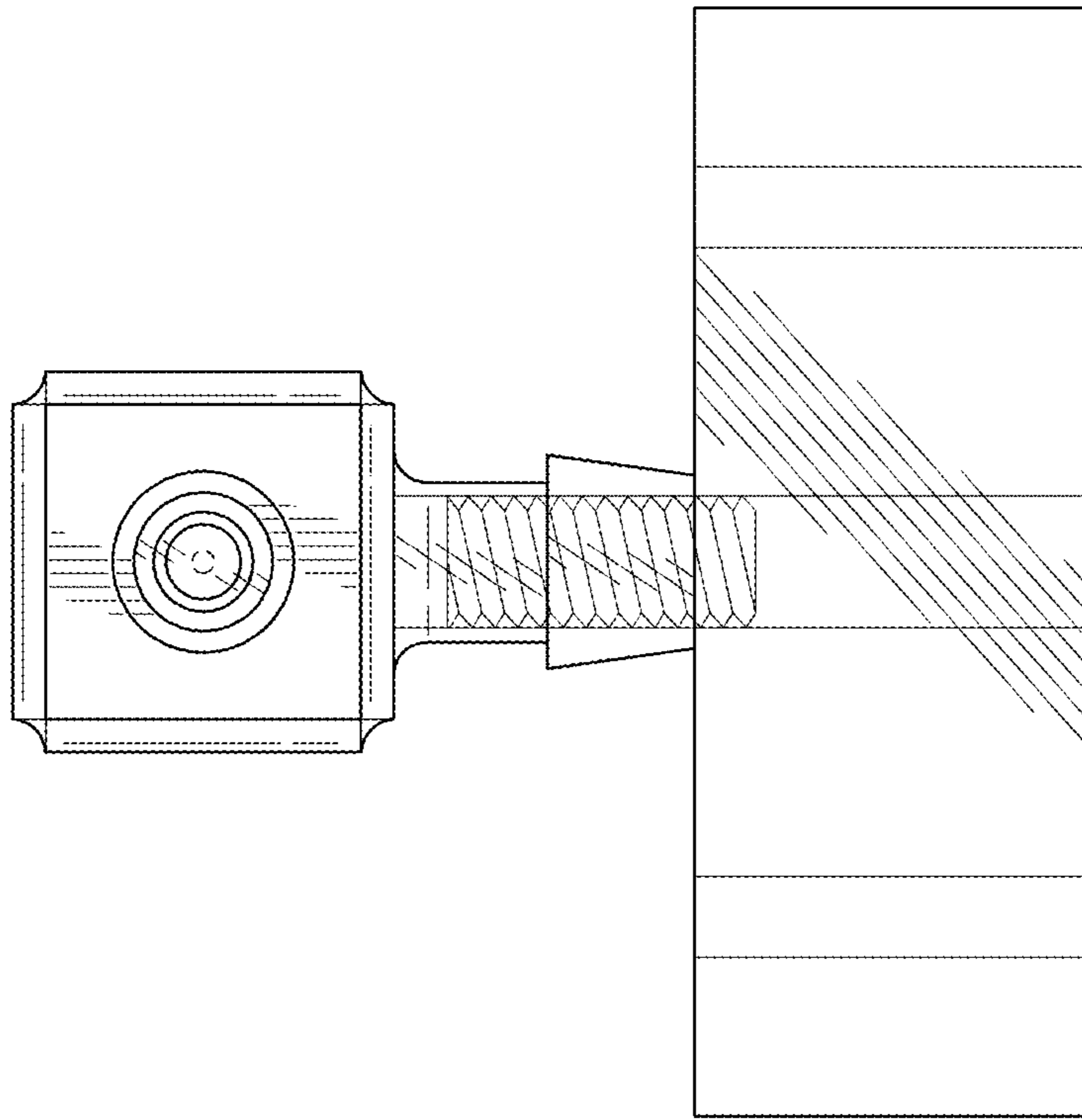


FIG. 5

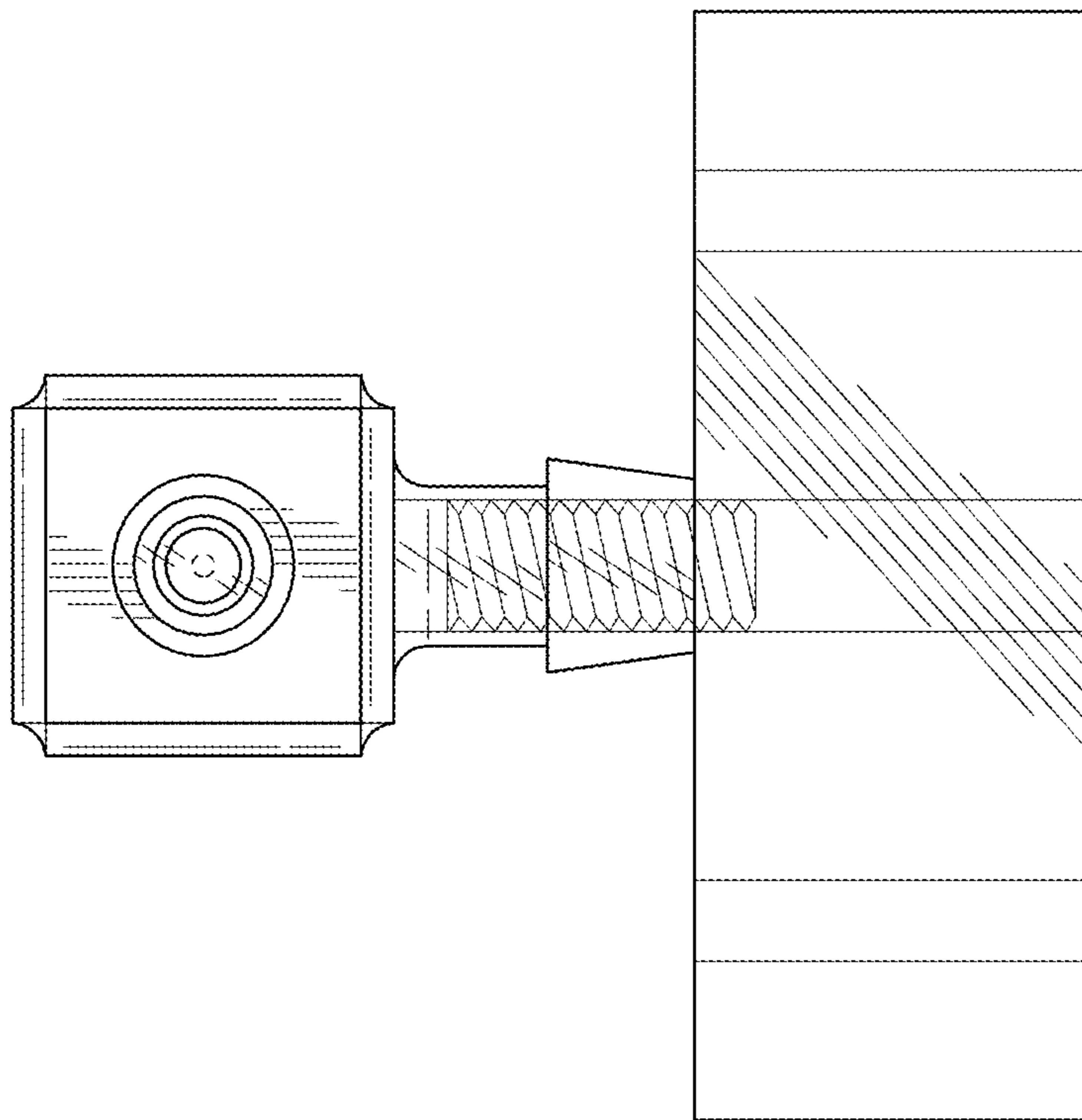


FIG. 4

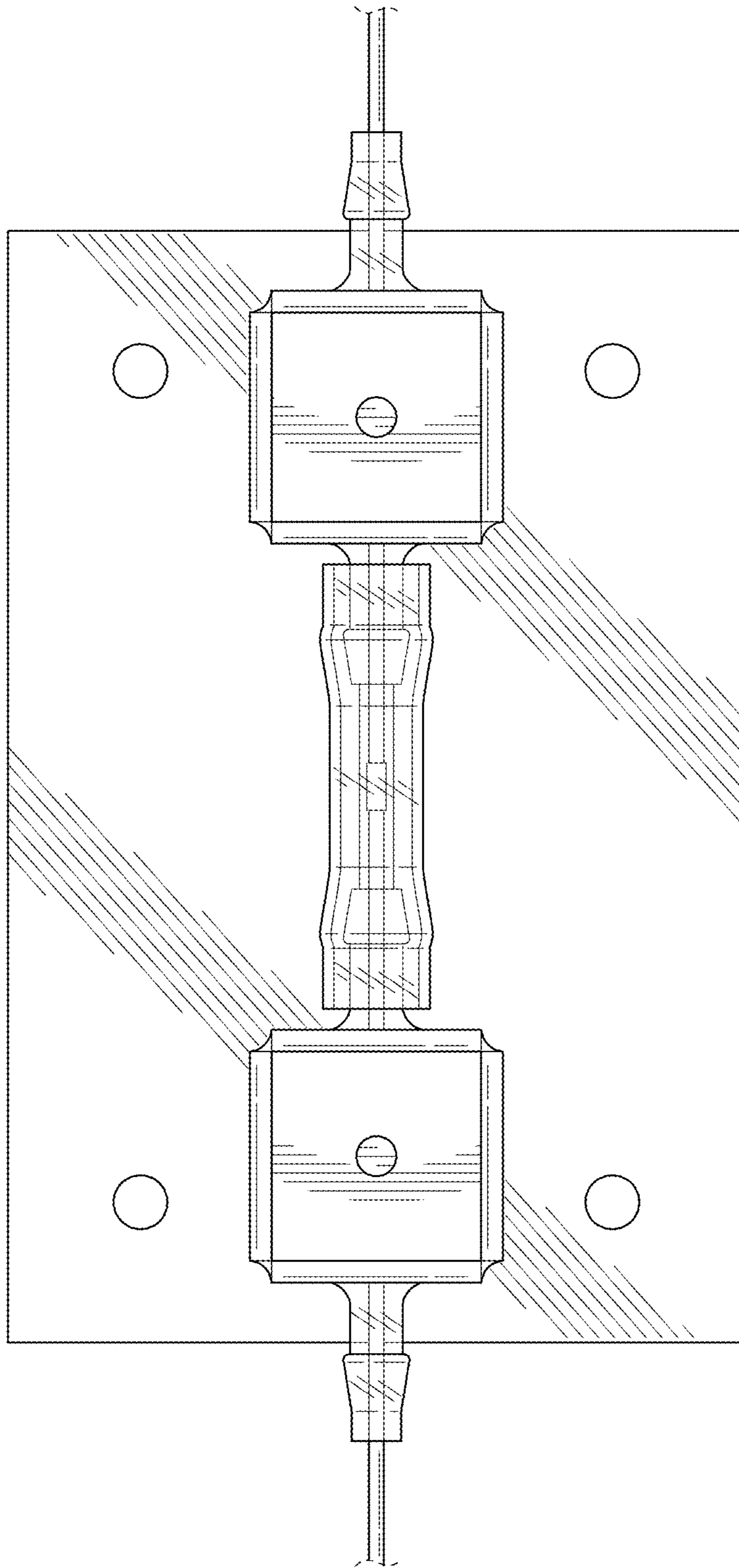


FIG. 6

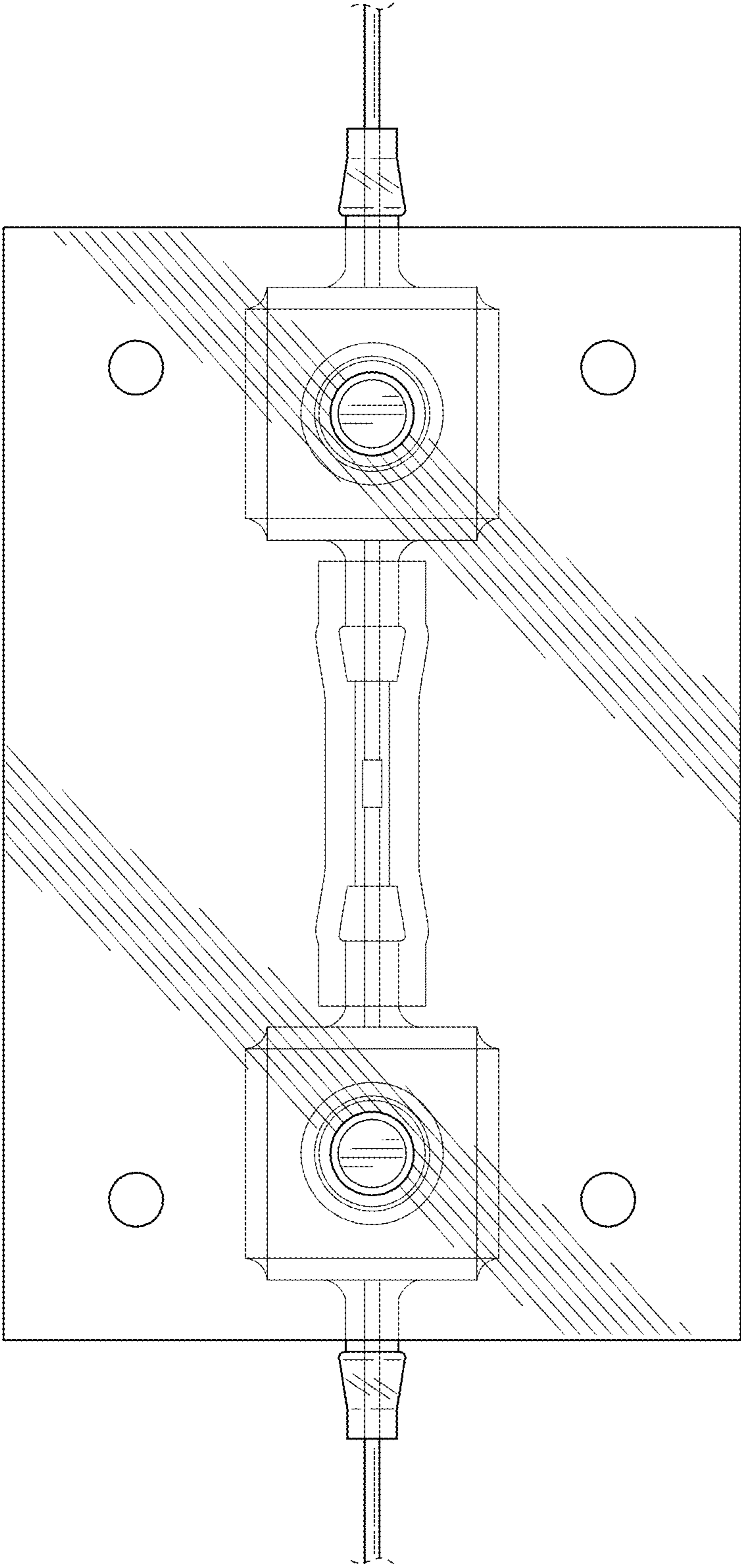


FIG. 7