



US00D900894S

(12) **United States Design Patent** (10) **Patent No.:** **US D900,894 S**
Mellor et al. (45) **Date of Patent:** **** Nov. 3, 2020**

- (54) **HYDRAULIC MANIFOLD FOR ACTUATOR CONTROL WITH DUAL SOLENOIDS**
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- (73) Assignee: **THE BOEING COMPANY**, Chicago, IL (US)
- (**) Term: **15 Years**
- (21) Appl. No.: **29/690,600**
- (22) Filed: **May 9, 2019**
- (51) **LOC (12) Cl.** **15-09**
- (52) **U.S. Cl.**
USPC **D15/149**
- (58) **Field of Classification Search**
USPC D15/5, 138, 148, 149; D23/245
CPC B64C 25/22; B64C 25/34; B64C 25/60; F15B 15/16
See application file for complete search history.

- (56) **References Cited**
- U.S. PATENT DOCUMENTS
- 4,194,719 A * 3/1980 Ewald F15B 13/0433
137/625.64
- 4,357,955 A * 11/1982 Sauer F15B 13/02
137/270
- 4,941,508 A * 7/1990 Hennessy F16K 11/0708
137/625.69
- 5,372,060 A * 12/1994 Maruyama F15B 13/02
137/596.15
- D406,320 S * 3/1999 Lynch D23/245
- 5,913,333 A * 6/1999 Biener F15B 13/0435
137/596.2

- 6,505,645 B1 * 1/2003 Pack F15B 13/0402
137/596.13
- D520,520 S * 5/2006 Nimberger D15/5
- D542,307 S * 5/2007 Stephenson D15/5
- D557,281 S * 12/2007 Miller D15/5
- D681,784 S * 5/2013 Liljegren D23/262
- D745,112 S * 12/2015 Stevens D23/233
- 9,481,452 B2 11/2016 Lindahl et al.
- 9,764,827 B2 9/2017 Lindahl et al.
- 2004/0099316 A1 * 5/2004 Koetter F15B 13/0417
137/596.13
- 2005/0211320 A1 * 9/2005 Greenwood F15B 13/086
137/884
- 2011/0088236 A1 * 4/2011 Fathauer B23P 15/001
29/402.08

* cited by examiner

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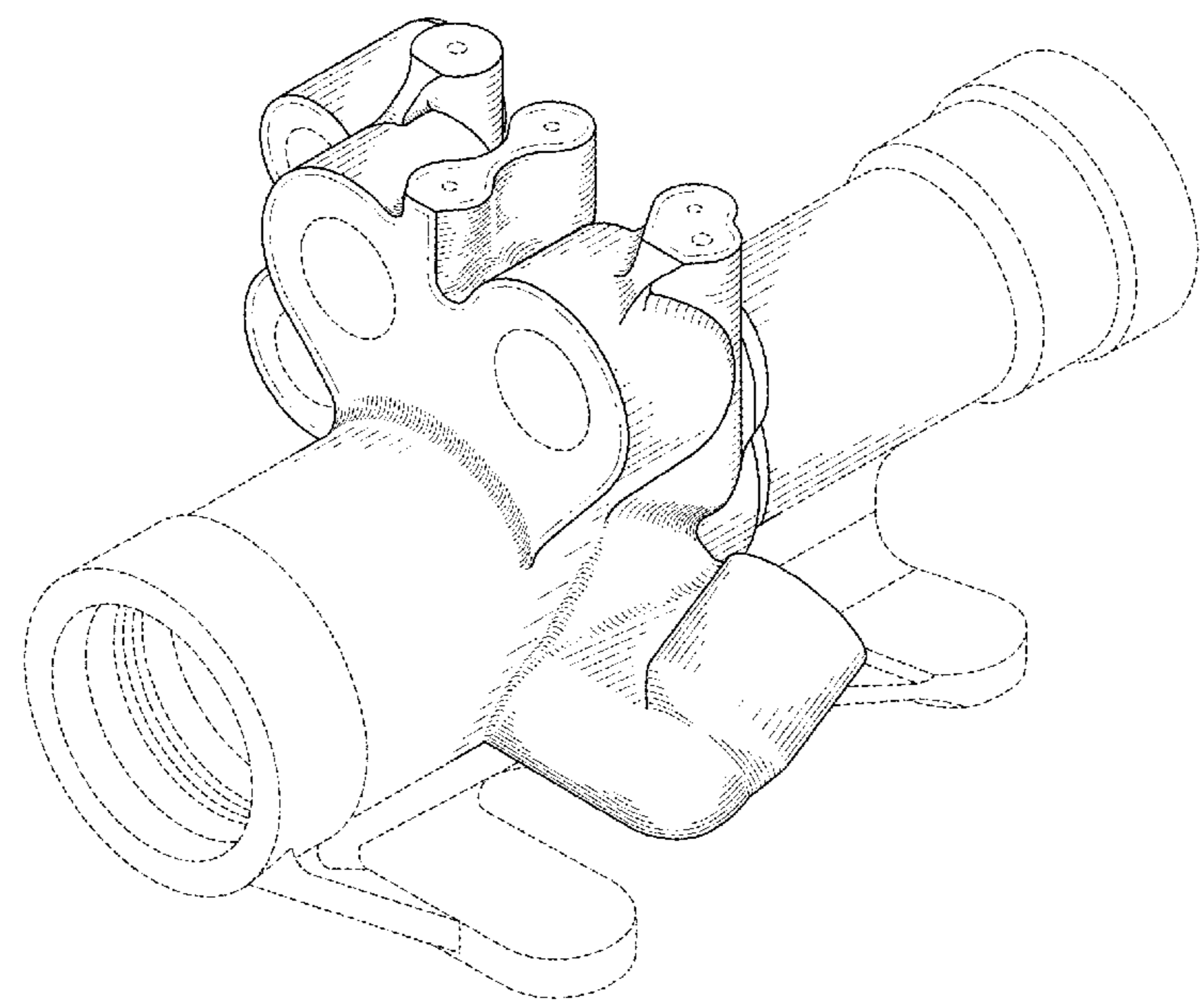
(57) **CLAIM**

The ornamental design for a hydraulic manifold for actuator control with dual solenoids, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view showing the top, front, back, and right sides of a hydraulic manifold for actuator control with dual solenoids showing the new design; FIG. 2 is a right side elevation view thereof; FIG. 3 is a left side elevation view thereof; FIG. 4 is a top side elevation view thereof; FIG. 5 is a bottom side elevation view thereof; FIG. 6 is a front side elevation view thereof; and, FIG. 7 is a back side elevation view thereof. The evenly spaced broken line depict portions of the manifold and environmental subject matter that forms no part of the claim.

1 Claim, 4 Drawing Sheets



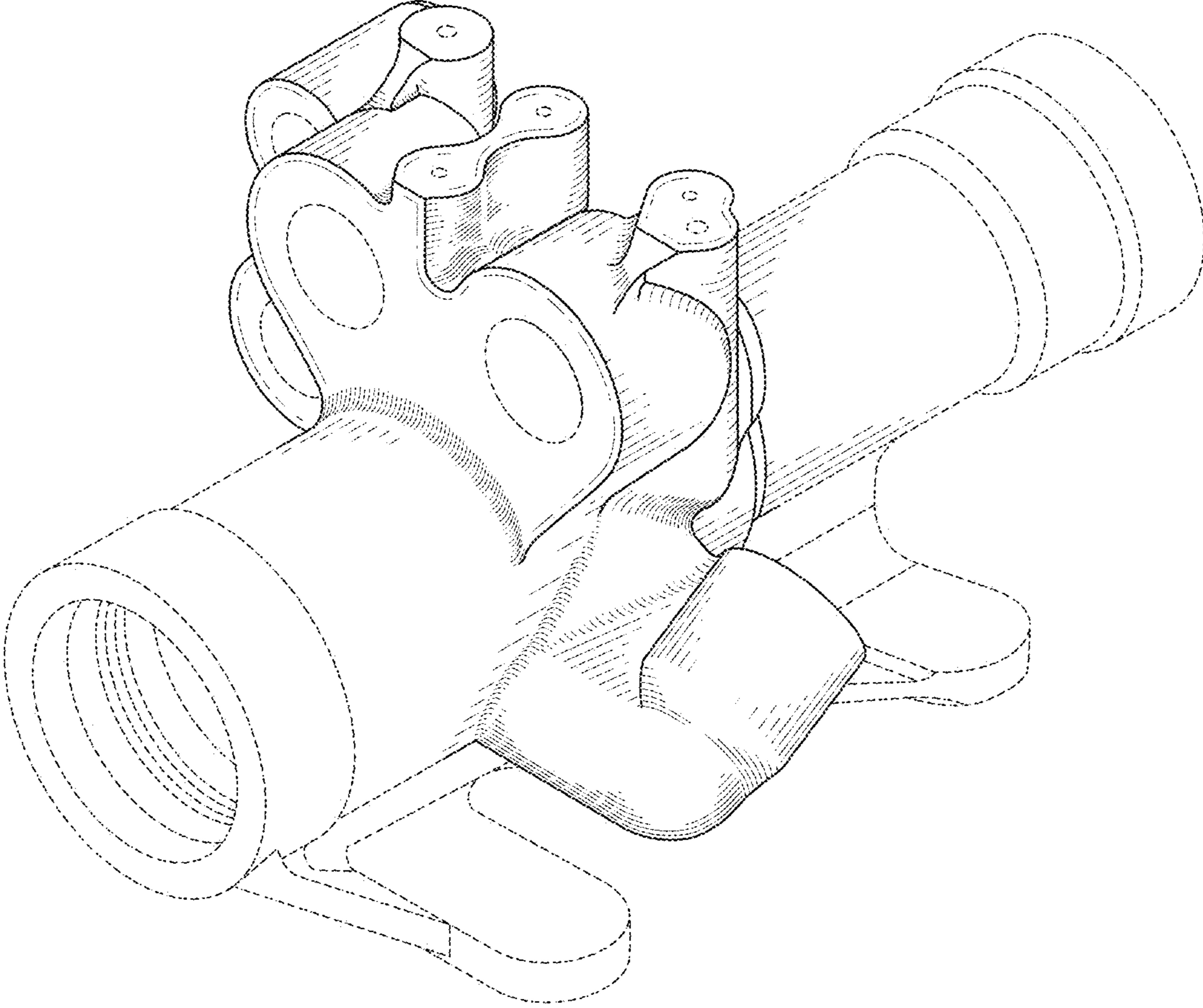


FIG. 1

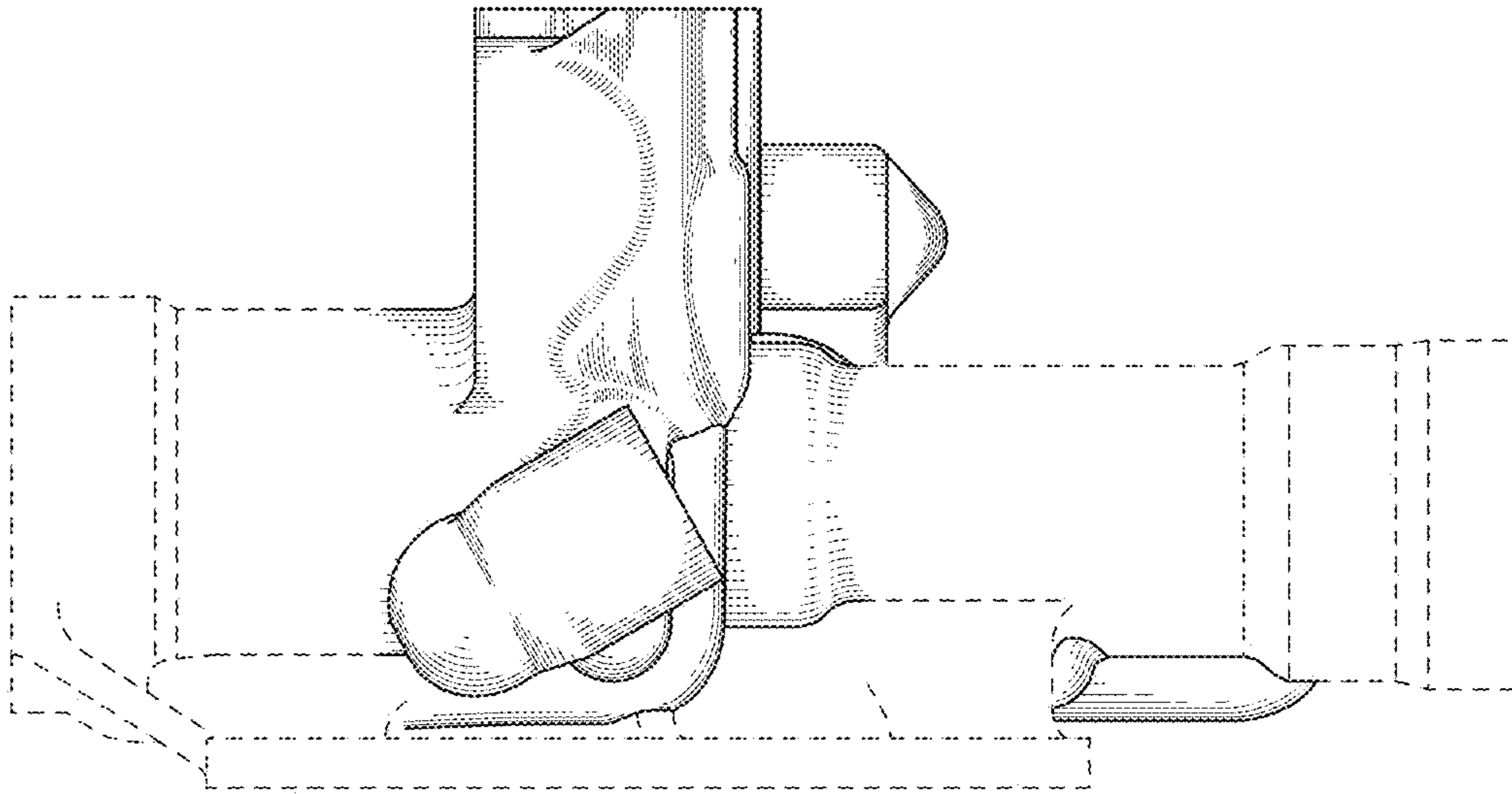


FIG. 2

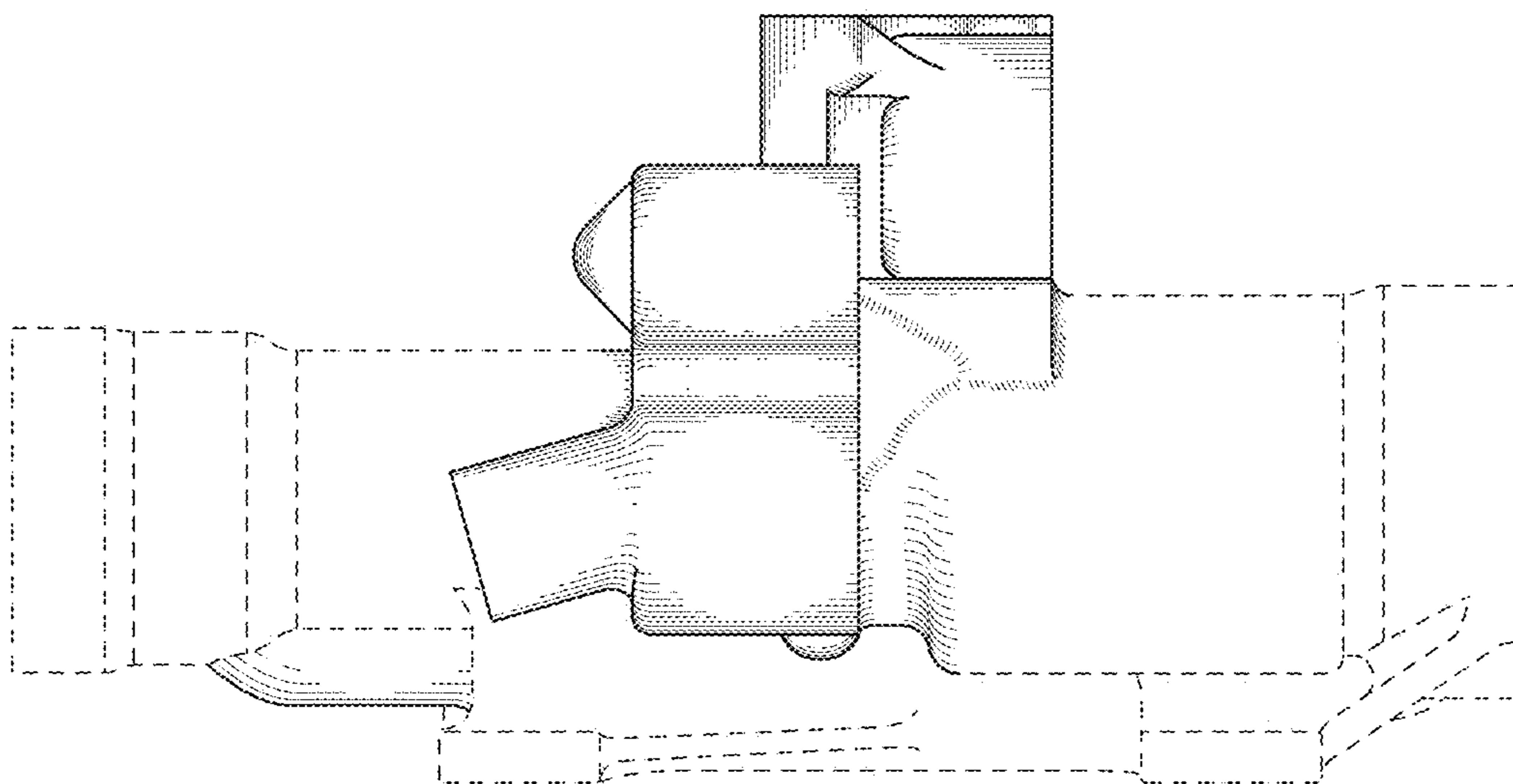


FIG. 3

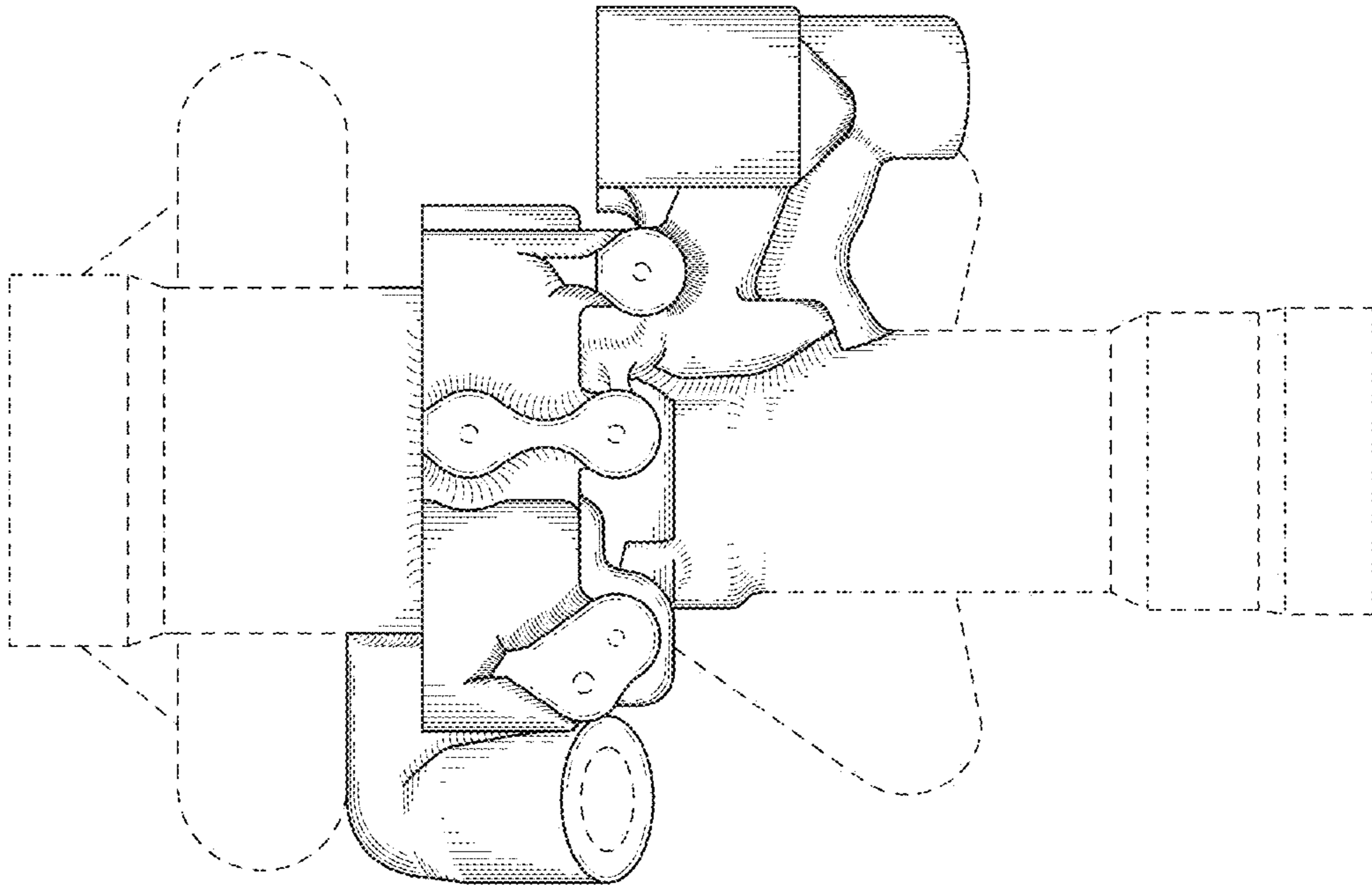


FIG. 4

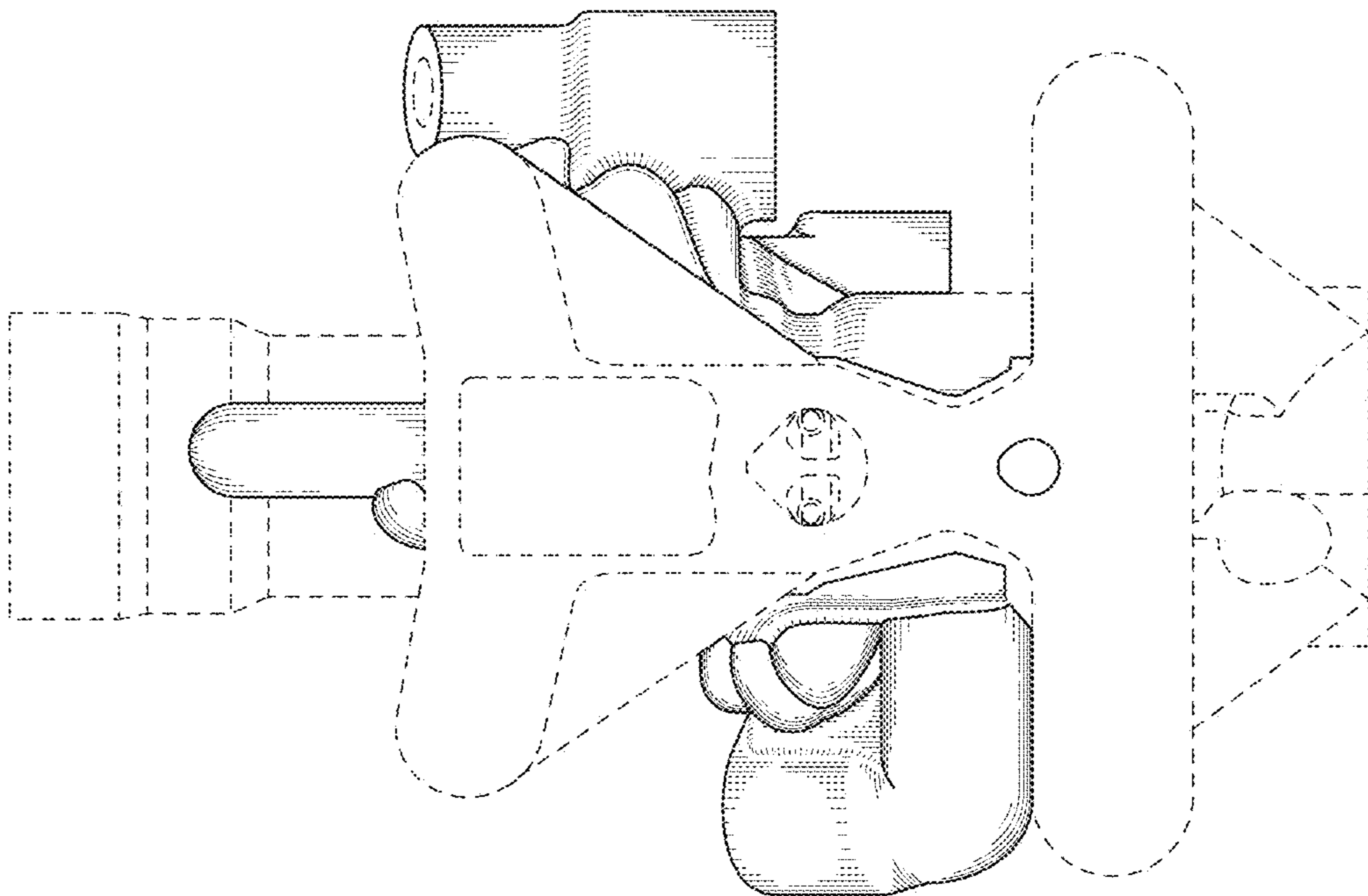


FIG. 5

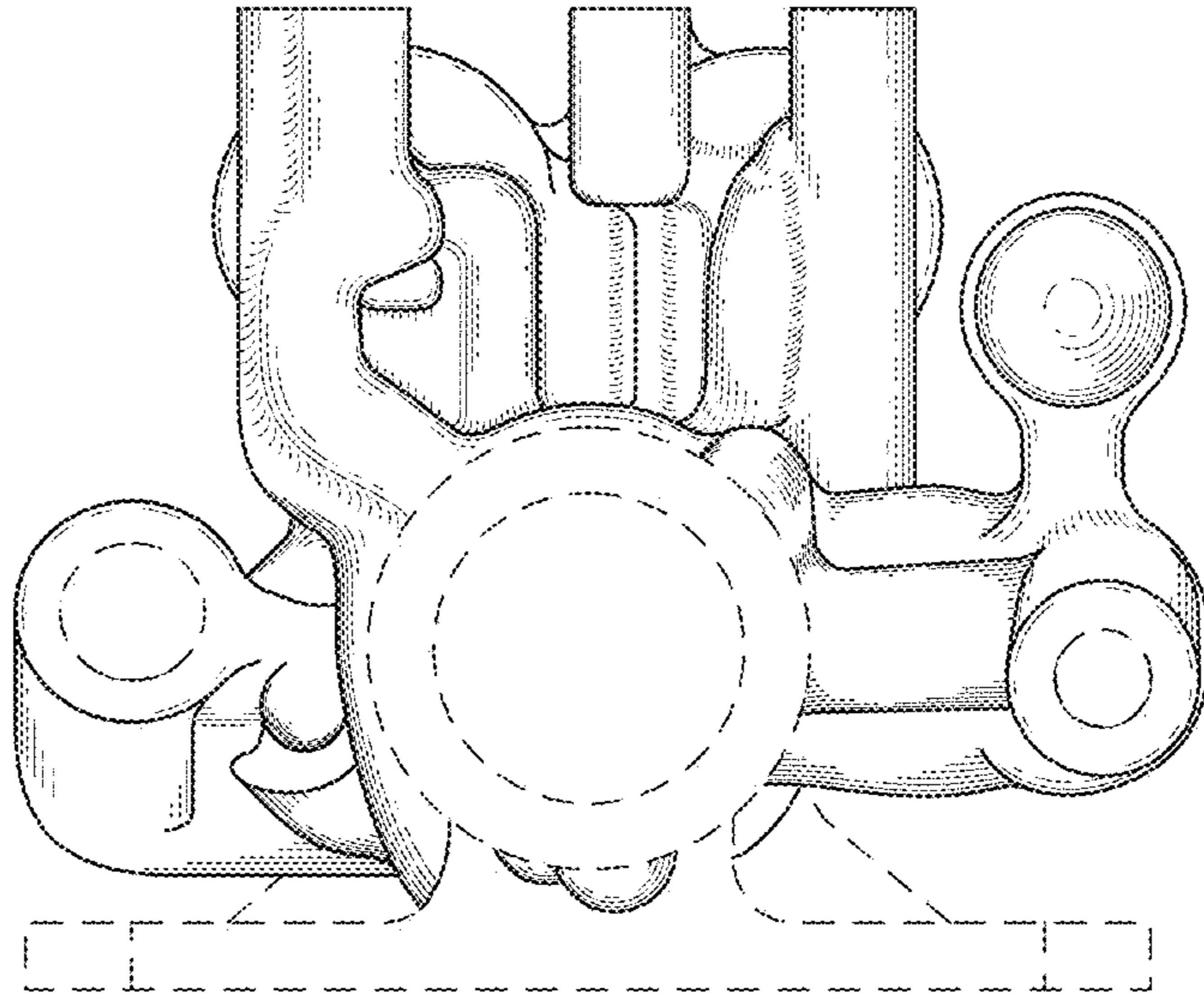


FIG. 6

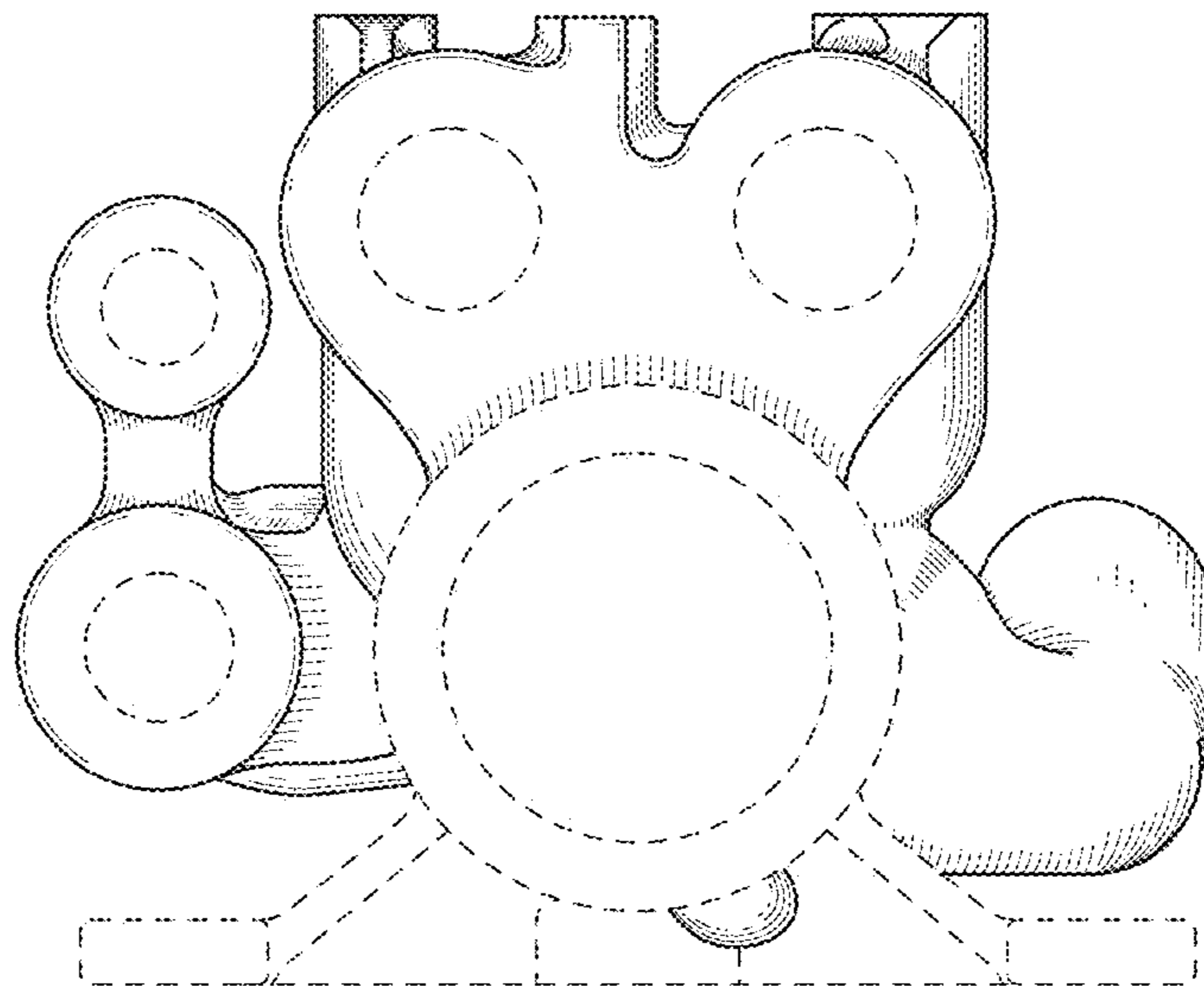


FIG. 7