

US00D423387S

United States Patent [19]
Hutton

[11] Patent Number: Des. 423,387
[45] Date of Patent: ** Apr. 25, 2000

[54] INSTRUMENT MANIFOLDS FOR USE WITH PRESSURE TRANSMITTERS

[76] Inventor: Peter B. Hutton, 2406 26 A Street
S.W., Calgary, Alberta, Canada, T32C1

[**] Term: 14 Years

[21] Appl. No.: 29/095,195

[22] Filed: Oct. 19, 1998

[51] LOC (6) Cl. 10-04

[52] U.S. Cl. D10/96

[58] Field of Search D10/96; 137/597,
137/595, 884, 7.4, 271, 269, 597.16, 1,
505.38, 352, 343, 577, 625.64; 73/23.2,
40.5 R, 756, 706, 861.61; 285/189, 142.1,
124.2

4,738,276 4/1988 Adams .
4,745,810 5/1988 Pierce et al. .
4,798,089 1/1989 Frick et al. .
4,833,922 5/1989 Frick et al. .
4,865,360 9/1989 Adams .
4,879,912 11/1989 Suckow .
4,921,072 5/1990 Divisi .
4,977,917 12/1990 Adams .
4,993,754 2/1991 Templin, Jr. .
5,036,884 8/1991 Miller et al. .
5,048,569 9/1991 Stoll et al. .

(List continued on next page.)

FOREIGN PATENT DOCUMENTS

1008701 4/1977 Canada .
2086535 5/1982 United Kingdom .
2271164 4/1994 United Kingdom .
WO 93/05329 3/1993 WIPO .
WO 96/18091 6/1996 WIPO .

OTHER PUBLICATIONS

Brochure: Instrumentation Manifolds: The World Standard. Bulletin 4190. Parker Fluid Connections. Dec. 1992.
Flier: "Safti-fold" 3 Valve Unimont. Admitted prior art.
Brochure: Manifolds. Century Valve Ltd., Calgary, Alberta, Canada. Admitted prior art.
Flier: DA Minimatic Three Valve Manifold. DA Mfg. Co., Tulia, Texas. Jun. 20, 1978.

Primary Examiner—Antoine Duval Davis
Attorney, Agent, or Firm—Browning Bushman

[57] CLAIM

The ornamental design for instrument manifold for use with pressure transmitters, as shown ands described.

DESCRIPTION

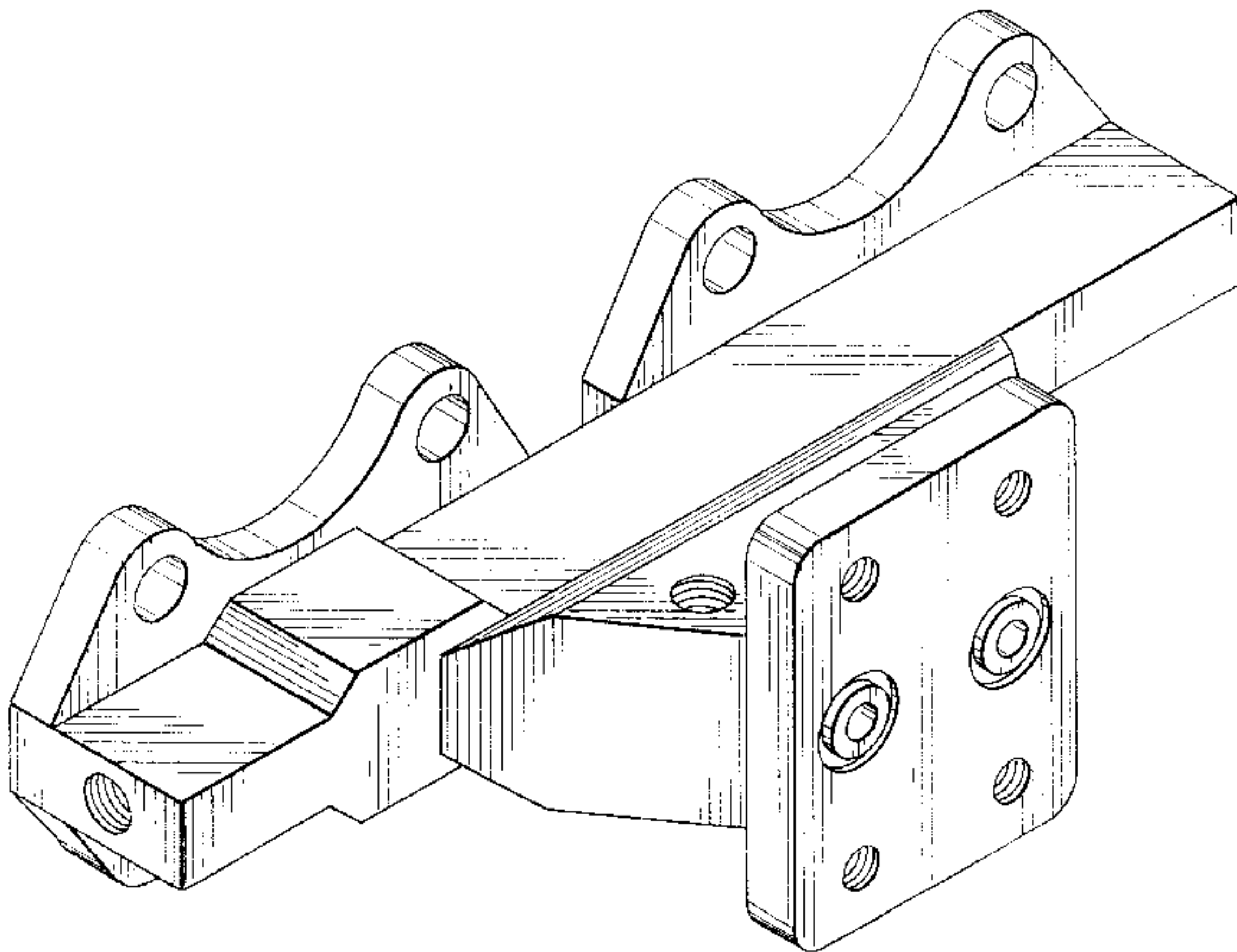
FIG. 1 is a front pictorial view of an instrument manifold showing my new design;
FIG. 2 is a top view thereof;
FIG. 3 is a back view thereof;
FIG. 4 is a bottom view thereof;
FIG. 5 is a right side view thereof; and,
FIG. 6 is a left side view thereof.

1 Claim, 2 Drawing Sheets

[56] References Cited

U.S. PATENT DOCUMENTS

Re. 34,610 5/1994 Miller et al. .
D. 287,827 1/1987 Broden .
D. 297,315 8/1988 Pierce et al. .
D. 317,266 6/1991 Broden et al. .
D. 318,432 7/1991 Broden et al. 1/1
D. 407,984 4/1999 Hutton et al. D10/96
3,564,923 2/1971 Nudd, Jr. et al. .
3,596,680 8/1971 Adams .
3,618,390 11/1971 Frick .
3,653,405 4/1972 Nelson .
3,747,637 7/1973 Mollere .
3,765,441 10/1973 Chang .
3,768,511 10/1973 Bias .
3,817,283 6/1974 Hewson .
3,934,605 1/1976 Legris .
4,182,362 1/1980 Hewson et al. .
4,193,420 3/1980 Hewson .
4,215,721 8/1980 Hetherington et al. .
4,231,261 11/1980 Elmer .
4,281,683 8/1981 Hetherington et al. .
4,319,492 3/1982 Hewson et al. .
4,466,290 8/1984 Frick .
4,494,568 1/1985 Young .
4,602,657 7/1986 Anderson, Jr. et al. .
4,672,728 6/1987 Nimberger .
4,726,399 2/1988 Miller .



U.S. PATENT DOCUMENTS						
5,117,867	6/1992	Adams .	5,303,733	4/1994	Nelson .	
5,209,258	5/1993	Sharp et al. .	5,341,846	8/1994	Framberg .	
5,248,167	9/1993	Petrich et al. .	5,449,294	9/1995	Rench et al. .	
5,272,646	12/1993	Farmer .	5,494,071	2/1996	Bell et al. .	
5,277,224	1/1994	Hutton et al. .	5,586,570	12/1996	Fukano et al. .	
			5,709,247	1/1998	Hutton	137/884

FIG. 1

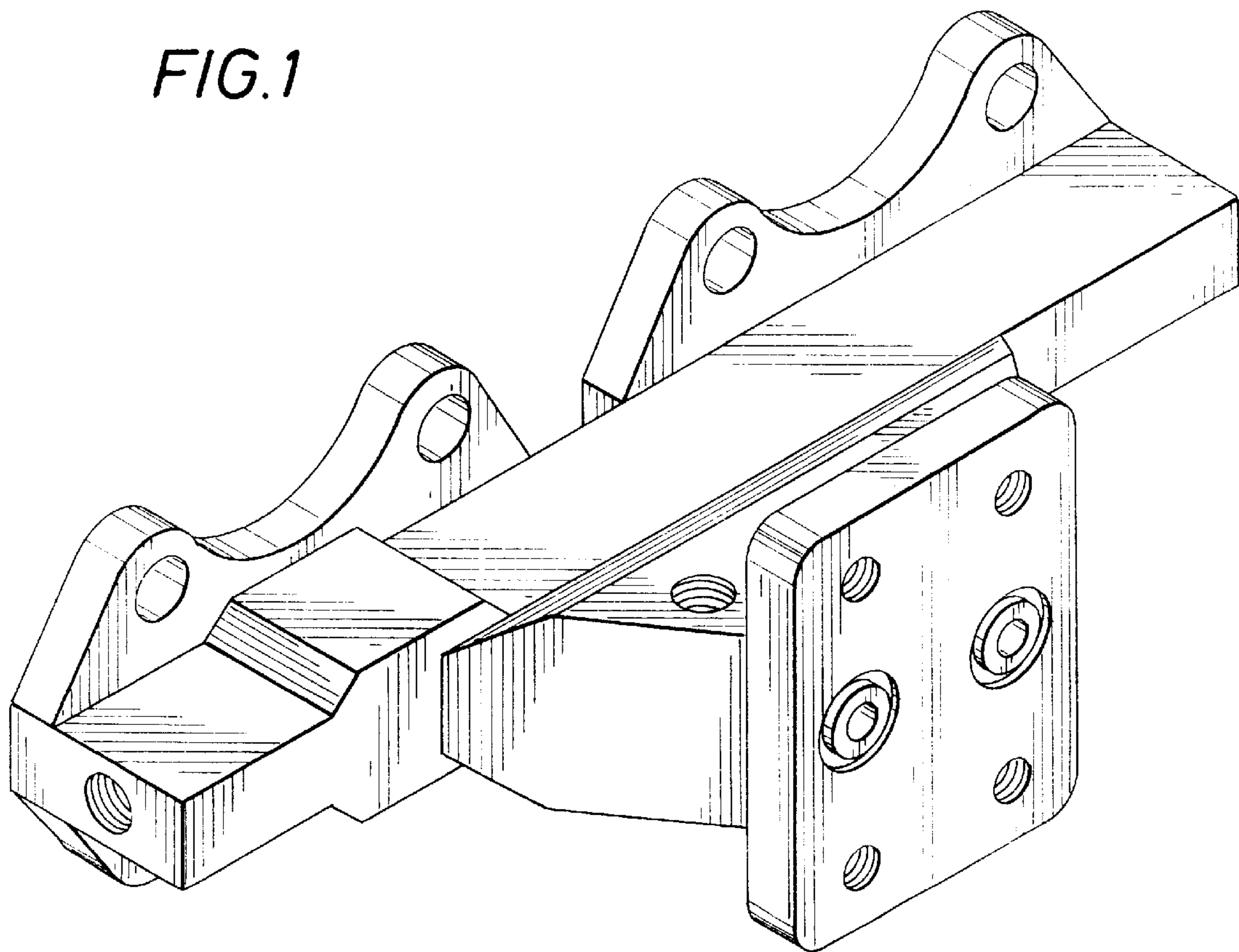


FIG. 2

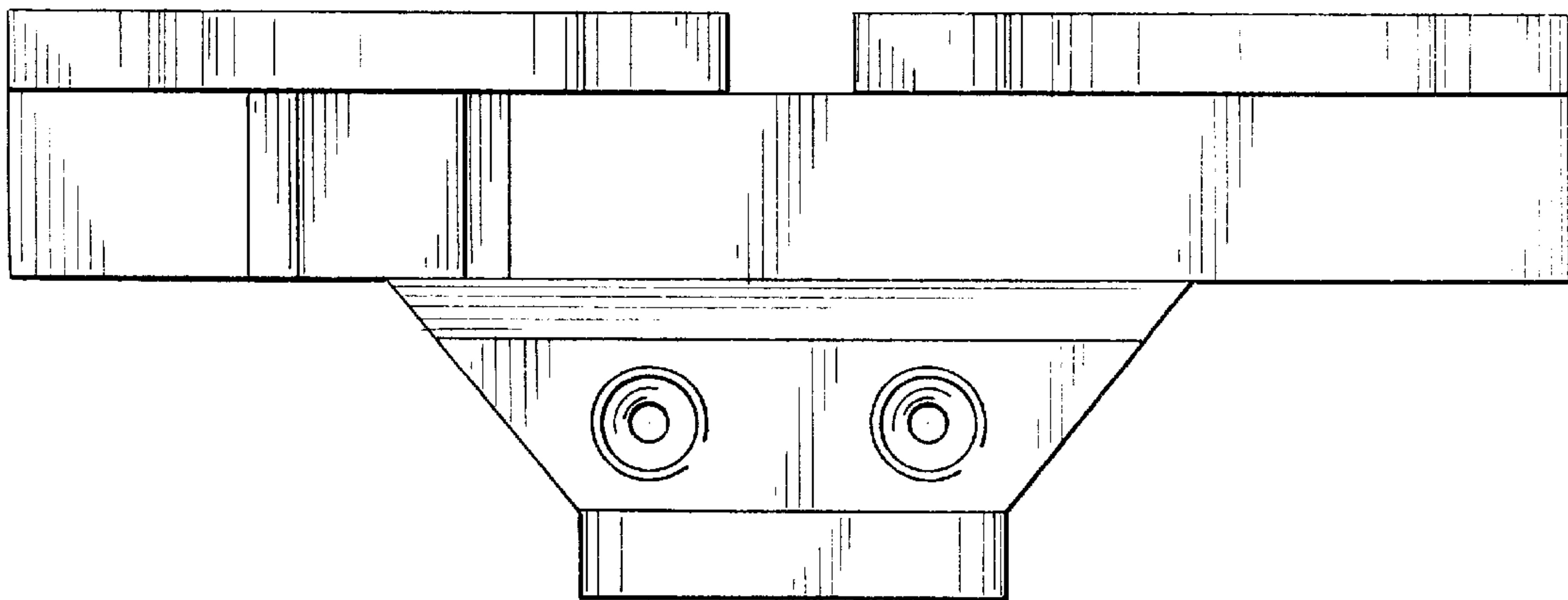


FIG. 3

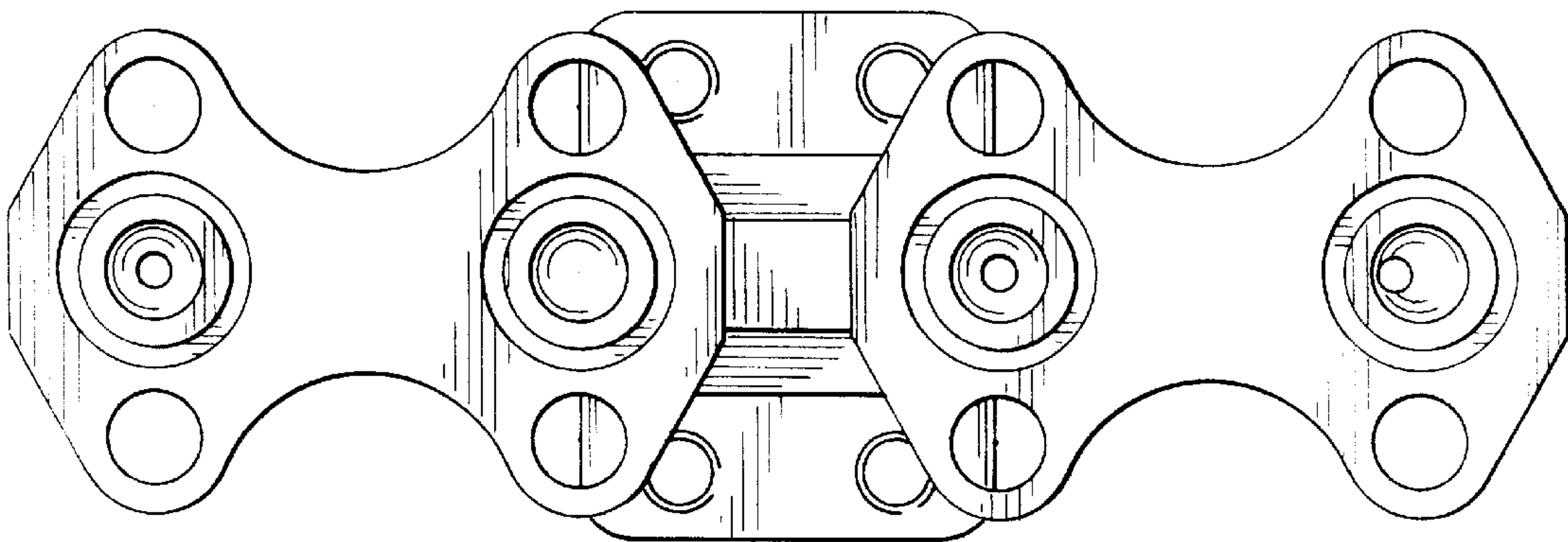


FIG. 4

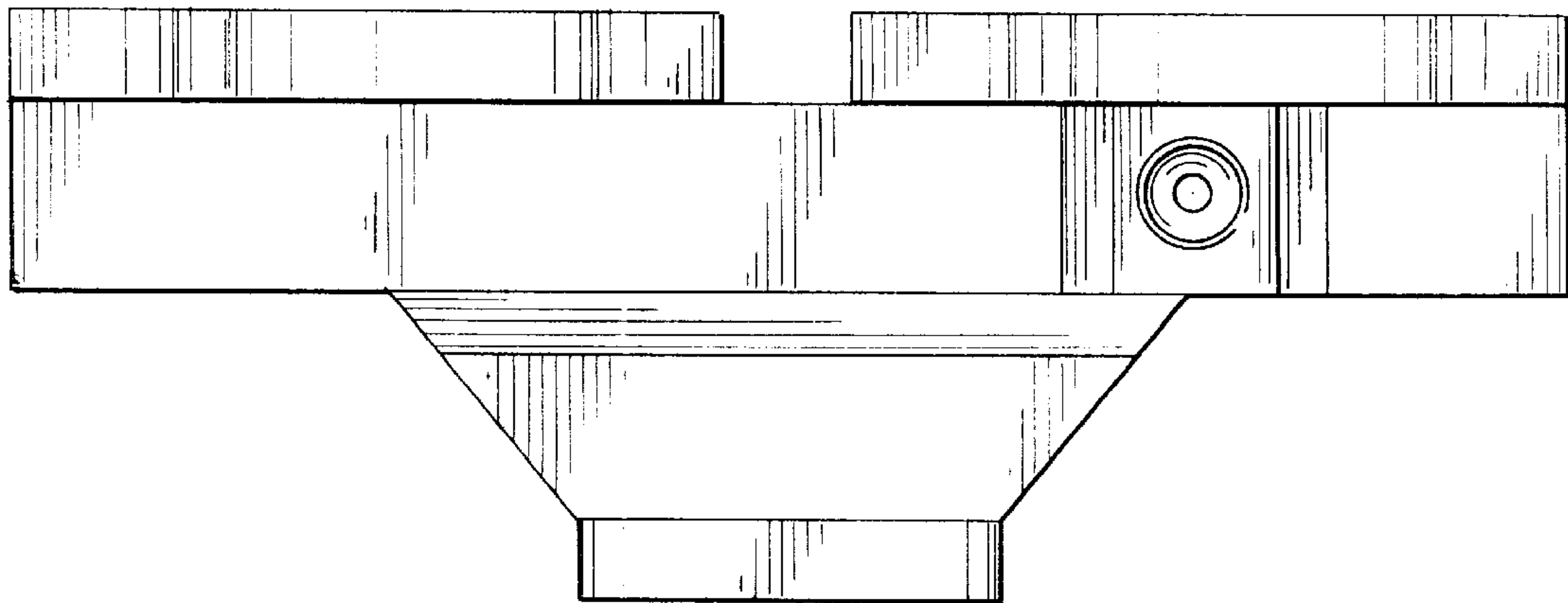


FIG. 5

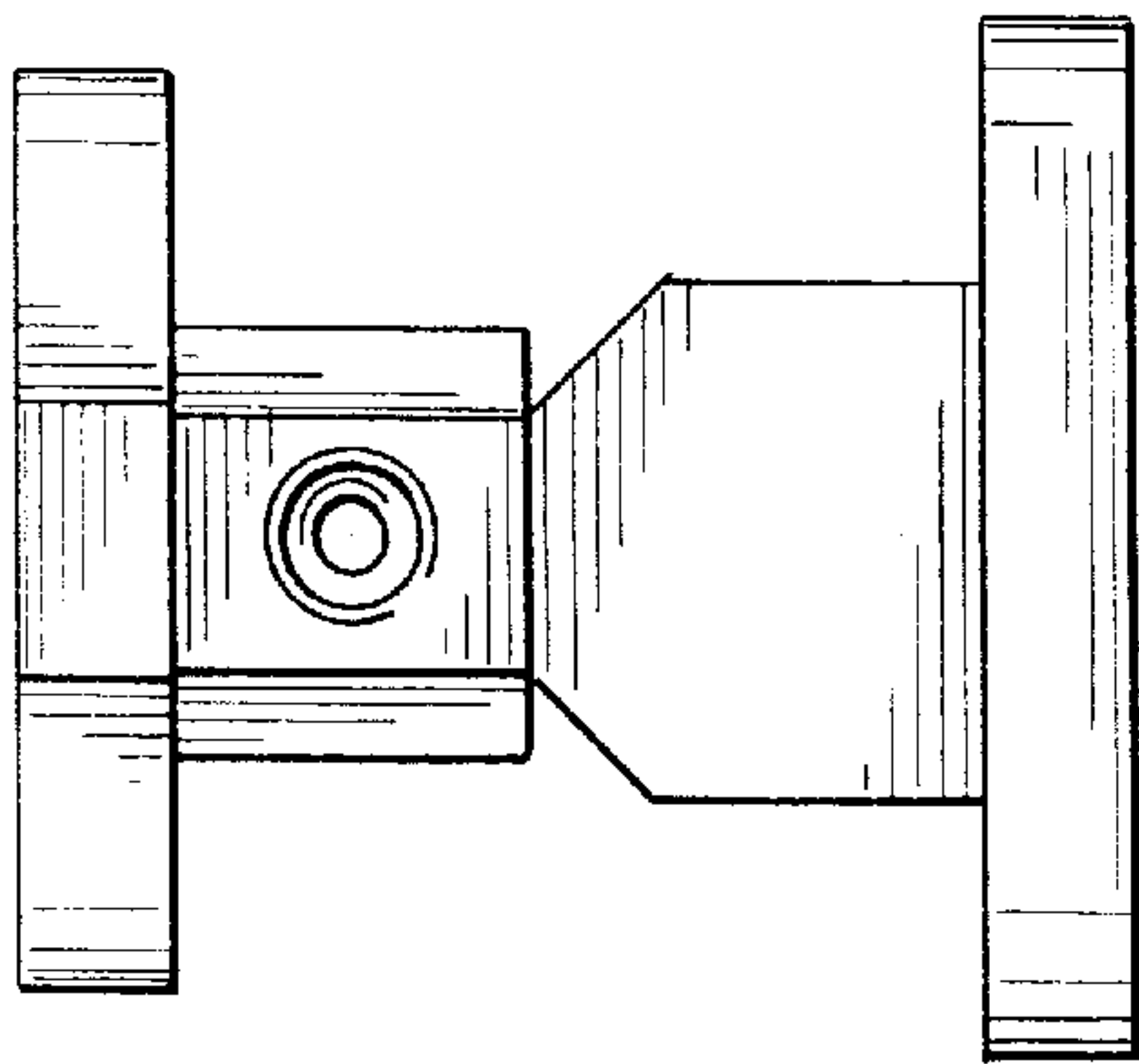


FIG. 6

