



US00D792471S

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

(10) **Patent No.:** **US D792,471 S**
(45) **Date of Patent:** **** Jul. 18, 2017**

(54) **SUPERCHARGER ROLLER SHUTTLE**

(71) Applicants: **Craig N. Hansen**, Plymouth, MN (US);
Paul C. Cross, Shorewood, MN (US)

(72) Inventors: **Craig N. Hansen**, Plymouth, MN (US);
Paul C. Cross, Shorewood, MN (US)

(73) Assignee: **HANSEN ENGINE CORPORATION**,
Plymouth, MN (US)

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

(21) Appl. No.: **29/620,421**

(22) Filed: **Dec. 5, 2016**

Related U.S. Application Data

(62) Division of application No. 29/544,370, filed on Nov. 3, 2015, now Pat. No. Des. 778,322.

(51) **LOC (10) Cl.** **15-01**

(52) **U.S. Cl.**
USPC **D15/5**

(58) **Field of Classification Search**
USPC D15/1-5, 7, 9; 123/559.1; 29/888.02;
418/178, 179, 1, 206.5, 201.2; 415/9,
415/173.4, 174.4, 118; 464/127, 72, 74,
464/75; D23/370, 375, 376, 377, 379,
D23/411, 413, 414

CPC F16D 2500/1068; F16D 3/70; F16D 3/64;
F16D 3/68; F16D 3/78; F16D 3/12; F16D
41/20; F16D 3/00; F02B 39/12; F02B
39/04; F02B 37/04; F02B 33/38; F02B
33/00; F02B 39/16; F02B 39/00; F04C
29/122; F04C 27/005; F04C 18/126;
F04C 18/16; F04C 18/165; F04C 18/18;
F04C 18/20; F04C 18/14; F04C 28/125;
F16C 1/00; F04D 29/005; F04D 27/0269;
F04D 29/424; F04D 29/4246; F04D

29/4253; F04D 25/088; F04D 29/22;
F04D 17/08; F04D 29/28; F04D 1/00;
F01D 17/146; F01D 17/143; F01D 17/16;
F01D 17/148; F05D 2220/40; F05D
2250/70; F05D 2240/12; F21V 33/0096
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,088,659 A	5/1963	Nilsson et al.	
4,281,975 A	8/1981	Blackwell	
4,610,613 A	9/1986	Szymaszek	
6,227,834 B1	5/2001	Andersen	
8,202,060 B2 *	6/2012	Picouet	F04C 18/16 417/213

* cited by examiner

Primary Examiner — T. Chase Nelson

Assistant Examiner — Ania Aman

(74) *Attorney, Agent, or Firm* — Richard John Bartz

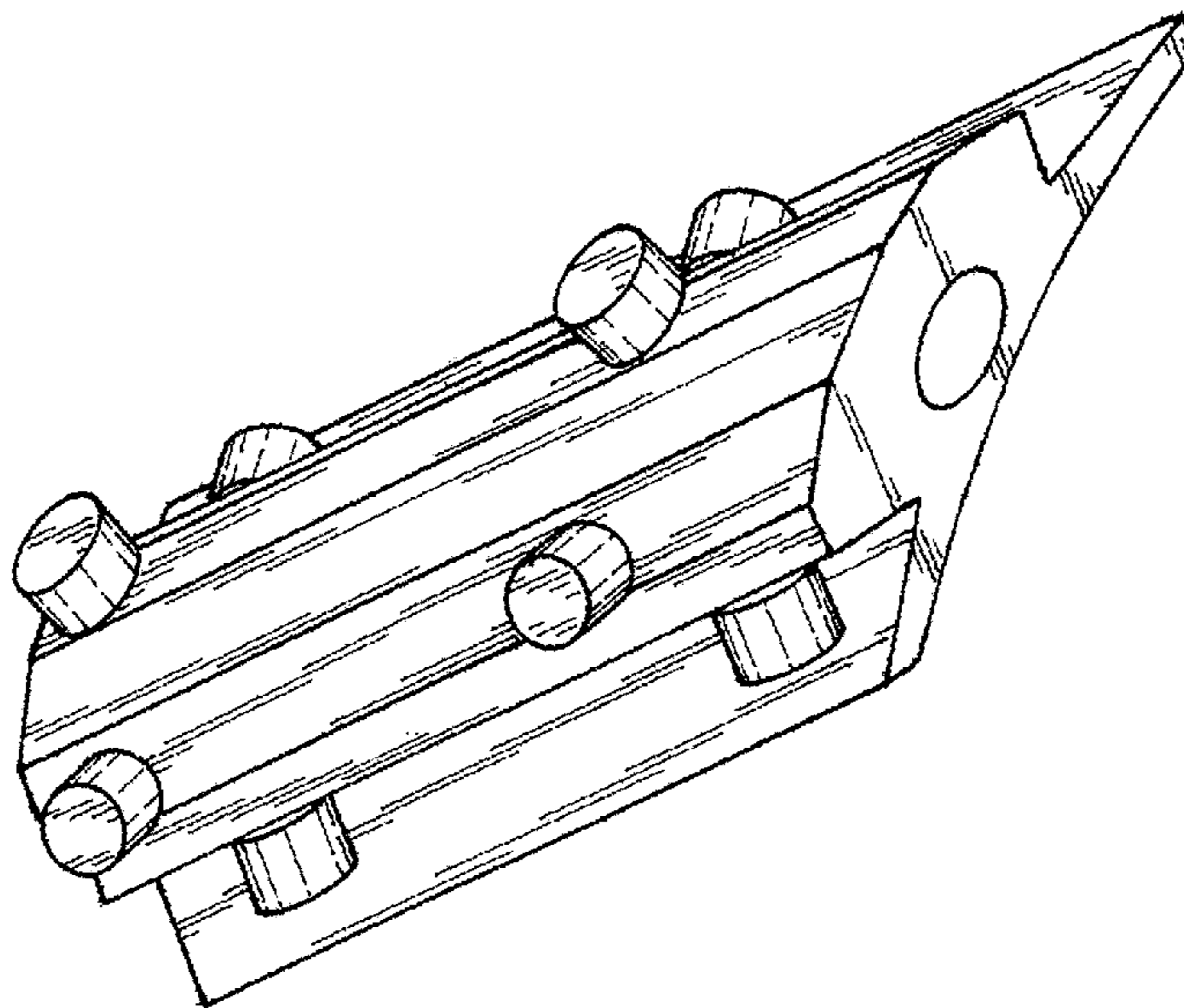
(57) **CLAIM**

The ornamental design of the supercharger roller shuttle, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of the supercharger roller shuttle of our new design;
FIG. 2 is a top plan view thereof;
FIG. 3 is a front elevational view thereof;
FIG. 4 is a back view thereof;
FIG. 5 is an end elevational view of the left end thereof;
FIG. 6 is an end elevational view of the right end thereof;
FIG. 7 is a bottom plan view thereof; and,
FIG. 8 is a sectional view taken along line 8-8 of FIG. 2.

1 Claim, 4 Drawing Sheets



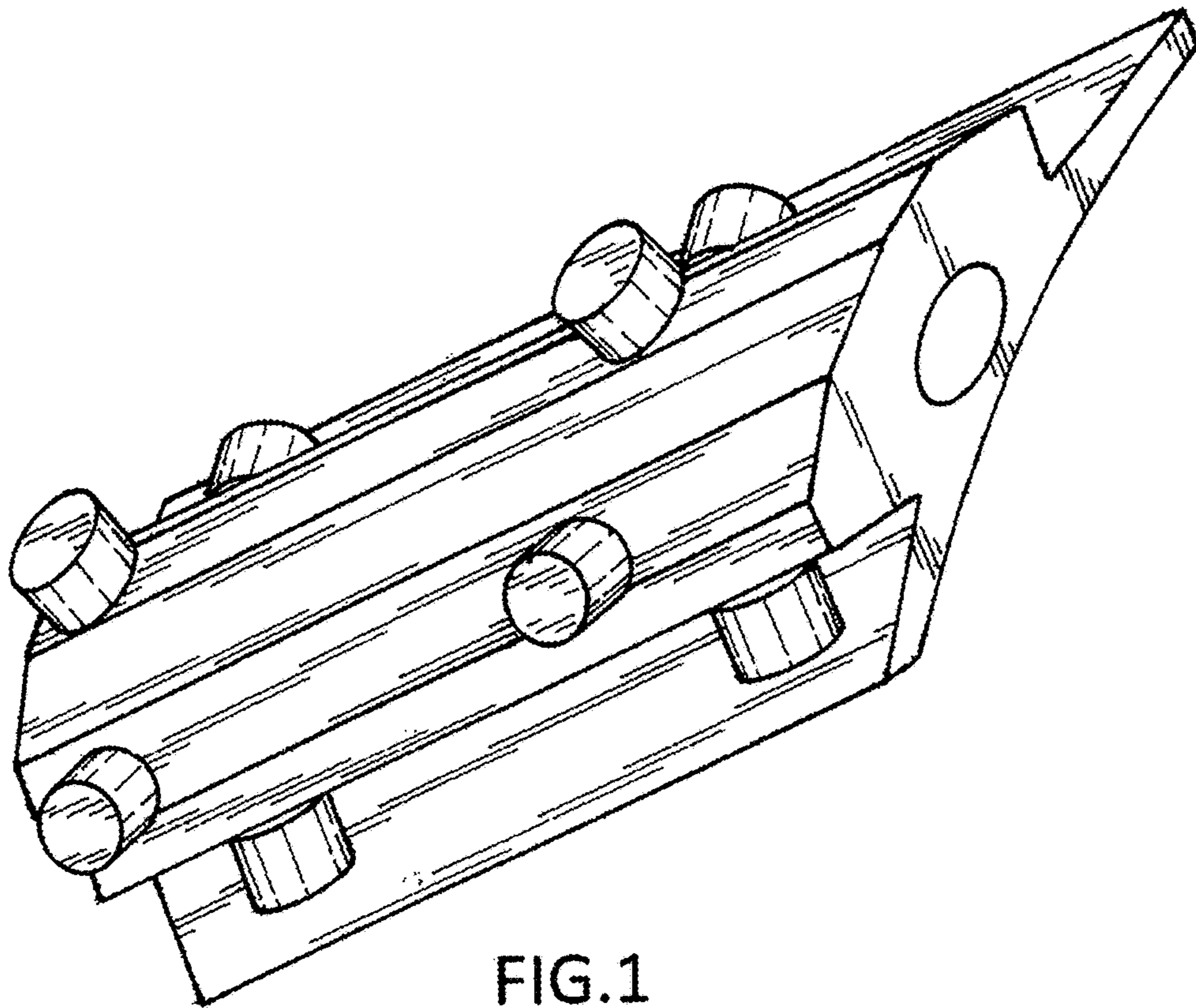


FIG.1

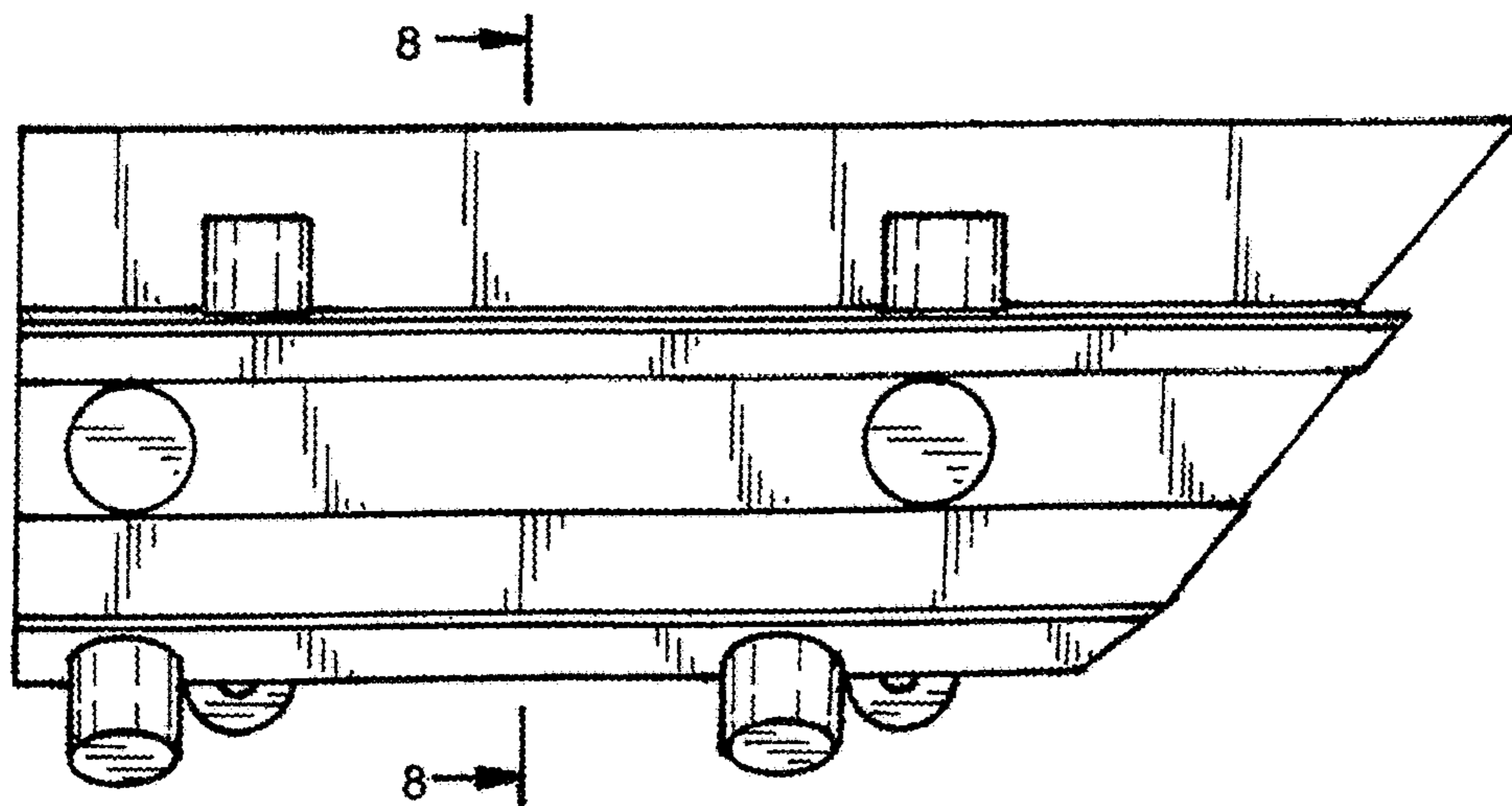


FIG.2

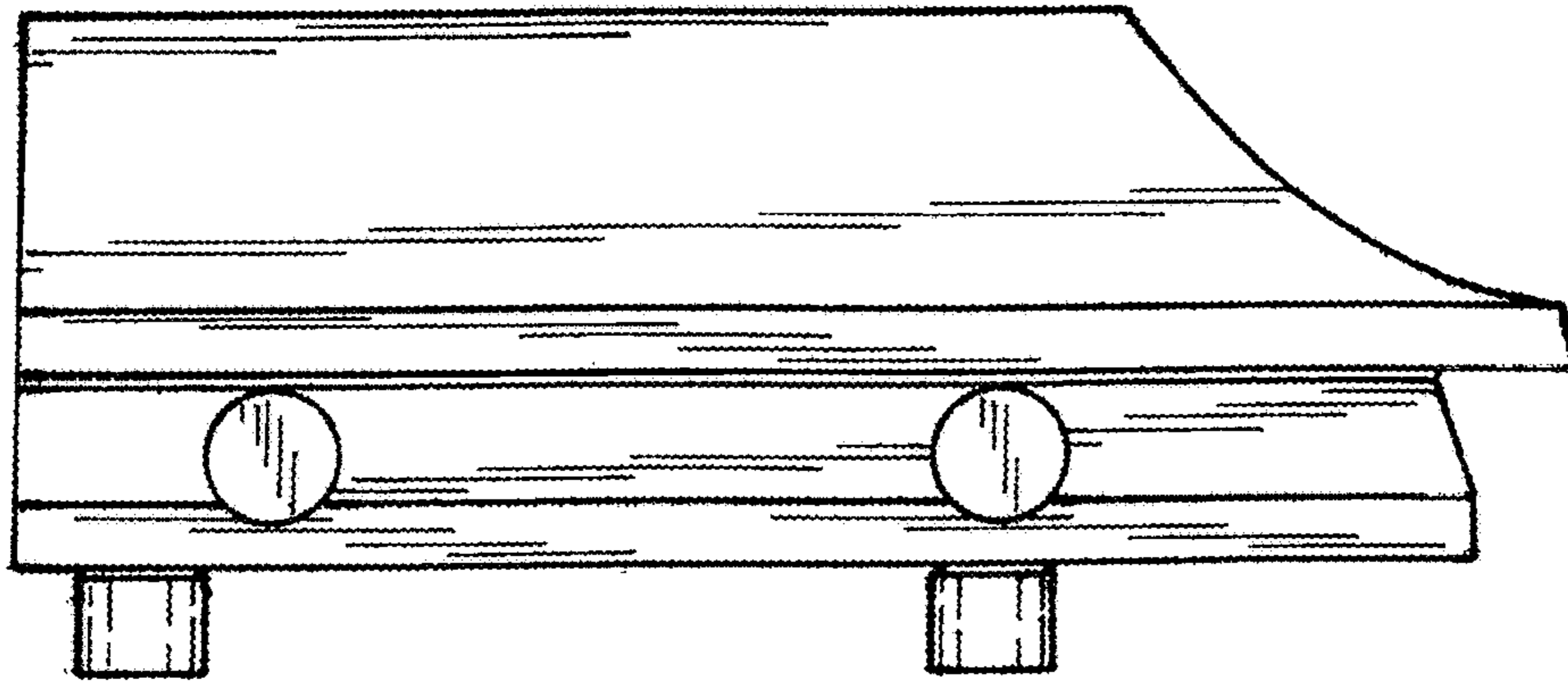


FIG.3

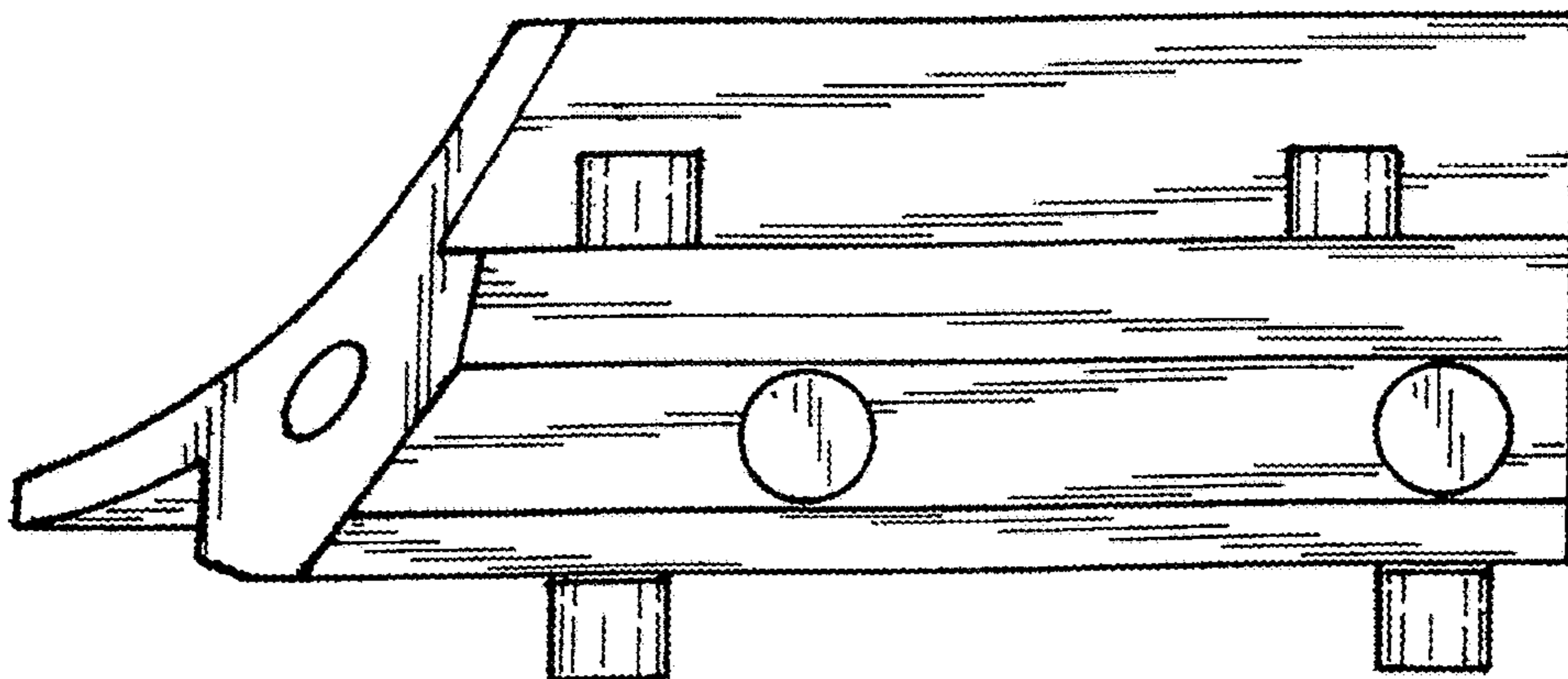


FIG.4

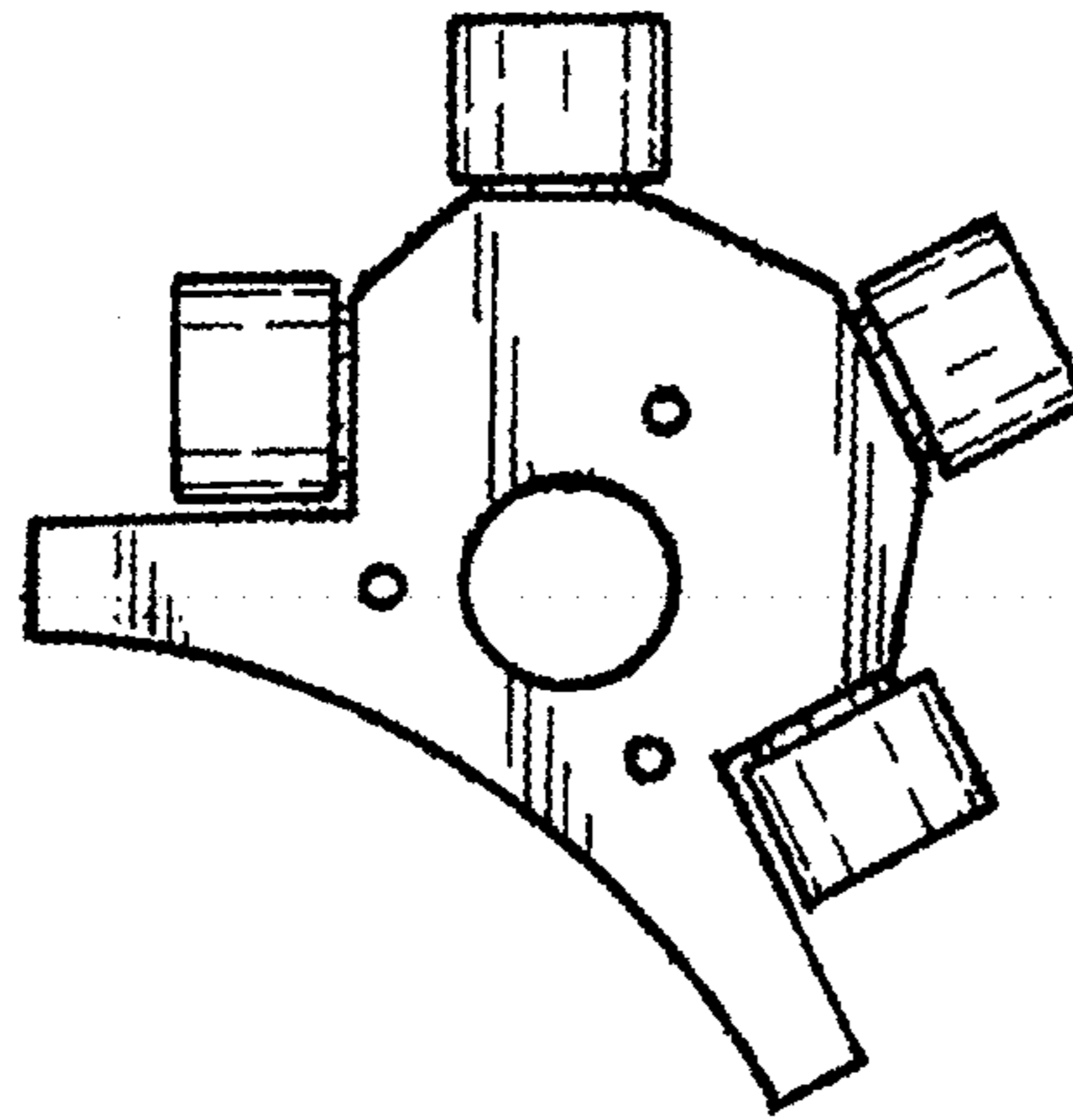


FIG.5

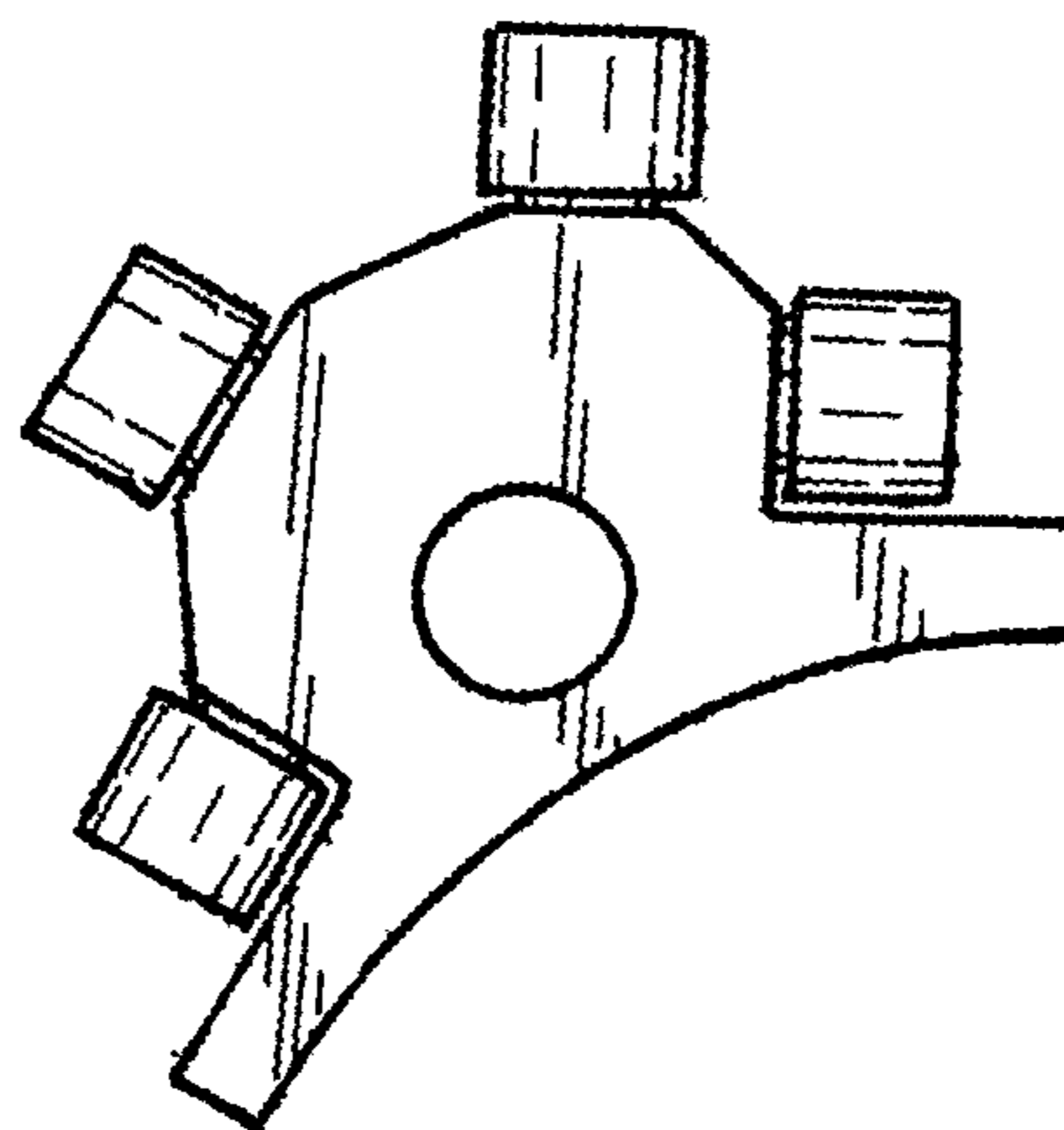


FIG.6

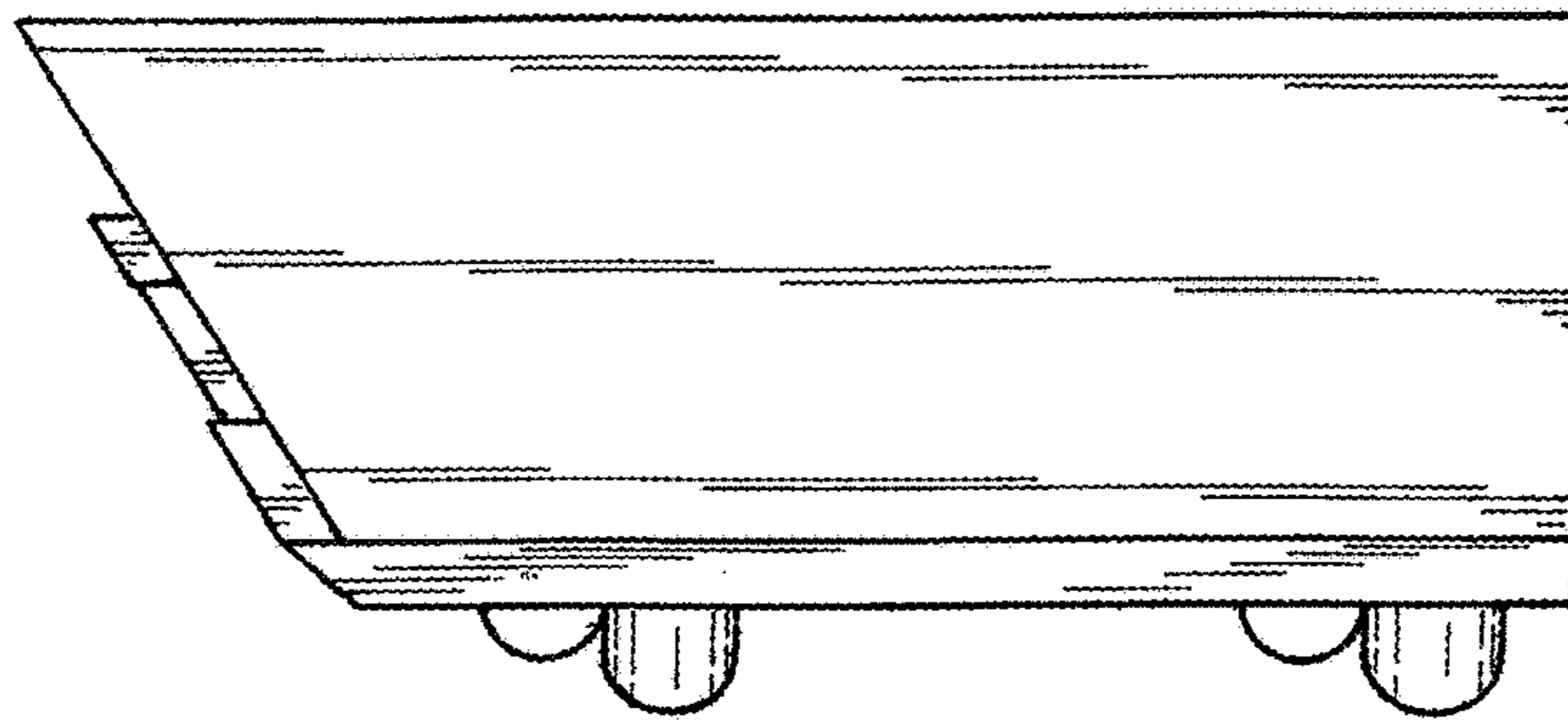


FIG. 7

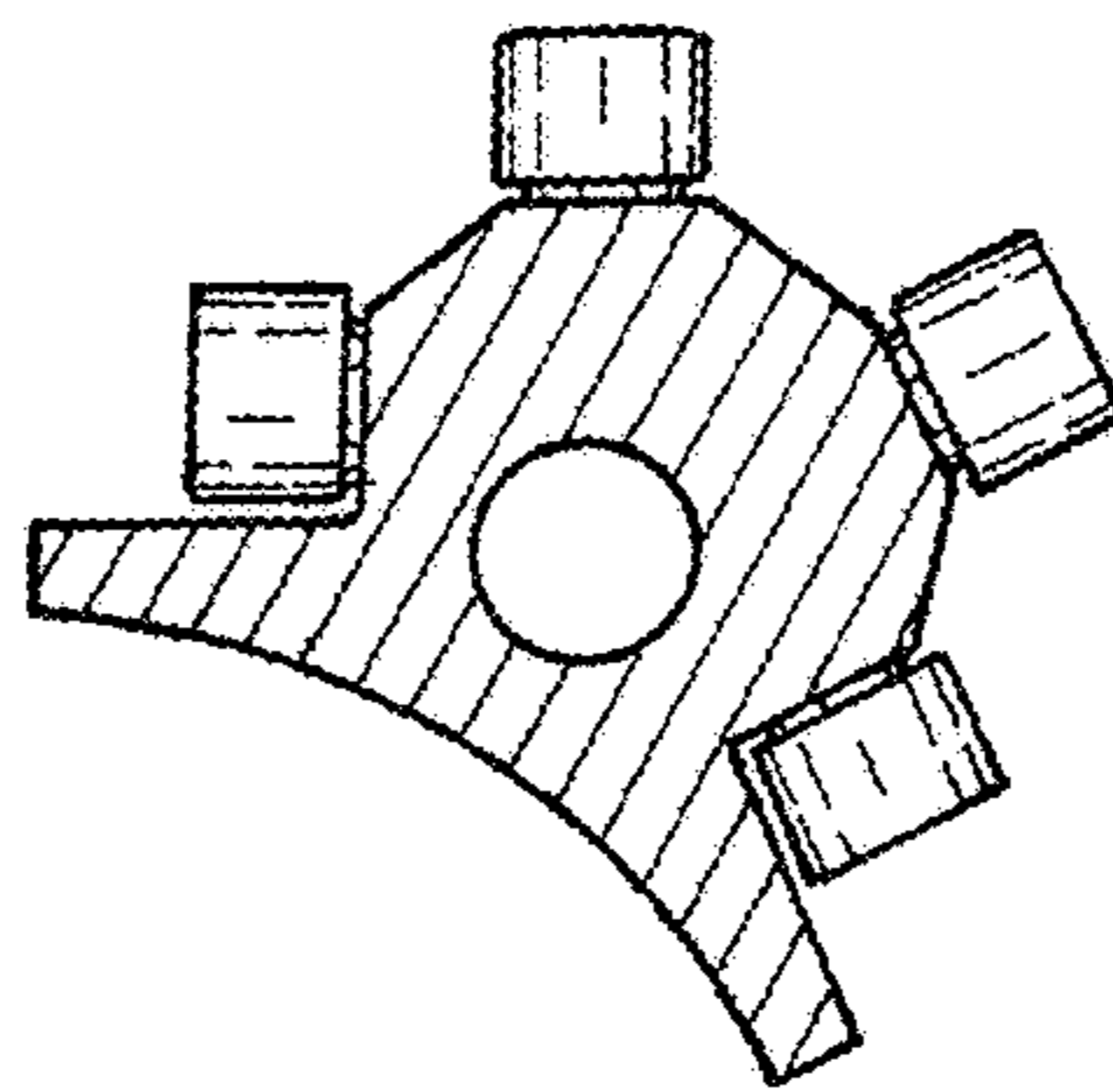


FIG. 8