



US00D835878S

(12) **United States Design Patent** (10) **Patent No.:** **US D835,878 S**
Spronken (45) **Date of Patent:** **** Dec. 11, 2018**

(54) **CRANE BASE**

(71) Applicant: **John Rene Spronken**, Calgary (CA)

(72) Inventor: **John Rene Spronken**, Calgary (CA)

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

(21) Appl. No.: **29/588,988**

(22) Filed: **Dec. 27, 2016**

(30) **Foreign Application Priority Data**

Dec. 21, 2016 (CA) 172264

(51) **LOC (11) Cl.** **12-05**

(52) **U.S. Cl.**
USPC **D34/35**

(58) **Field of Classification Search**
USPC D34/35, 33, 32; D25/35; 248/679;
411/378
CPC B66C 13/00; B66C 13/40; B66C 13/48;
B66C 13/14; B66C 13/50; B66C 23/26;
B66C 23/72; F16B 5/0635
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

- 3,622,171 A * 11/1971 Gottschalk B62D 21/02
280/797
- 3,909,863 A * 10/1975 Macrander B66C 6/00
14/74.5
- 4,563,030 A * 1/1986 Makino B66C 13/06
212/274
- 6,607,331 B2 * 8/2003 Sanders B66C 23/52
212/175
- 8,910,732 B1 * 12/2014 Risen B66C 23/62
180/9.48
- 9,376,292 B2 * 6/2016 Knecht B66C 23/36
- 2018/0172199 A1 * 6/2018 Spronken F16B 5/0635

FOREIGN PATENT DOCUMENTS

- CA Design 40855 6/1976
- CA Design 40923 7/1976
- CA Design 127269 3/2009
- CN 101718097 B 9/2011
- CN 202164621 U 3/2012
- CN 203113364 U 8/2013
- CN 203498858 U 3/2014
- CN 203716169 U 7/2014
- CN 203846523 U 9/2014
- CN 104088291 A 10/2014
- CN 103015453 B 11/2014
- CN 203939043 U 11/2014
- CN 203947490 U 11/2014

(Continued)

OTHER PUBLICATIONS

towercranechina.com website, Aug. 24, 2012, Zhengzhou Unique Industrial Equipment Co., Ltd.; Shortlink <http://wp.me/p2GhOC-9>.

(Continued)

Primary Examiner — Cynthia Ramirez
(74) *Attorney, Agent, or Firm* — Reichel Stohry LLP;
Mark C. Reichel; Natalie J. Dean

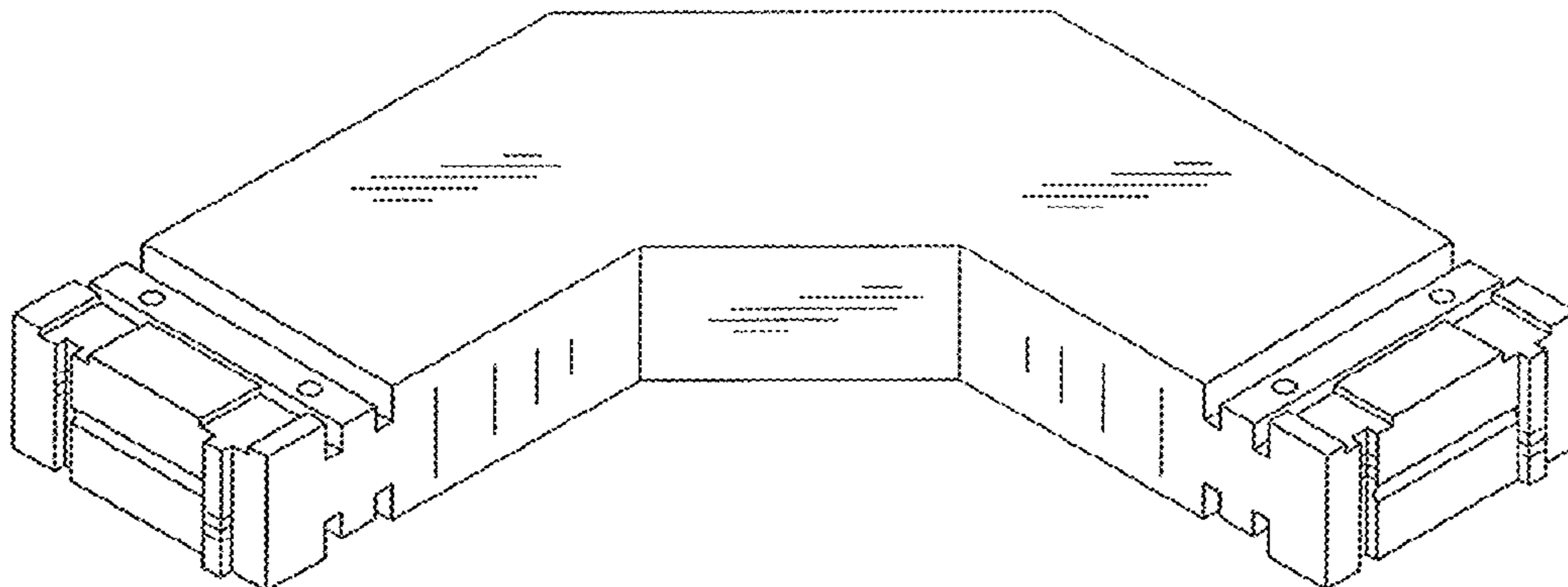
(57) **CLAIM**

The ornamental design for a crane base, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a crane base showing my new design;
FIG. 2 is a top plan view thereof;
FIG. 3 is a front view thereof;
FIG. 4 is a back view thereof;
FIG. 5 is a left side view thereof;
FIG. 6 is a right side view thereof; and,
FIG. 7 is a bottom plan view thereof.

1 Claim, 2 Drawing Sheets



(56)

References Cited

FOREIGN PATENT DOCUMENTS

CN	204151819 U	2/2015
CN	103850265 B	11/2015
CN	205062829 U	3/2016
CN	104264705 B	4/2016

OTHER PUBLICATIONS

Miniature Construction World website, www.miniature-construction-world.co.uk.

Liu, Jin-long et al.; A Design of Fabricated Concrete Foundation for Tower Crane; International Journal of Advancements in Computing Technology, pp. 934-944, vol. 5, No. 6, Mar. 2013.

* cited by examiner

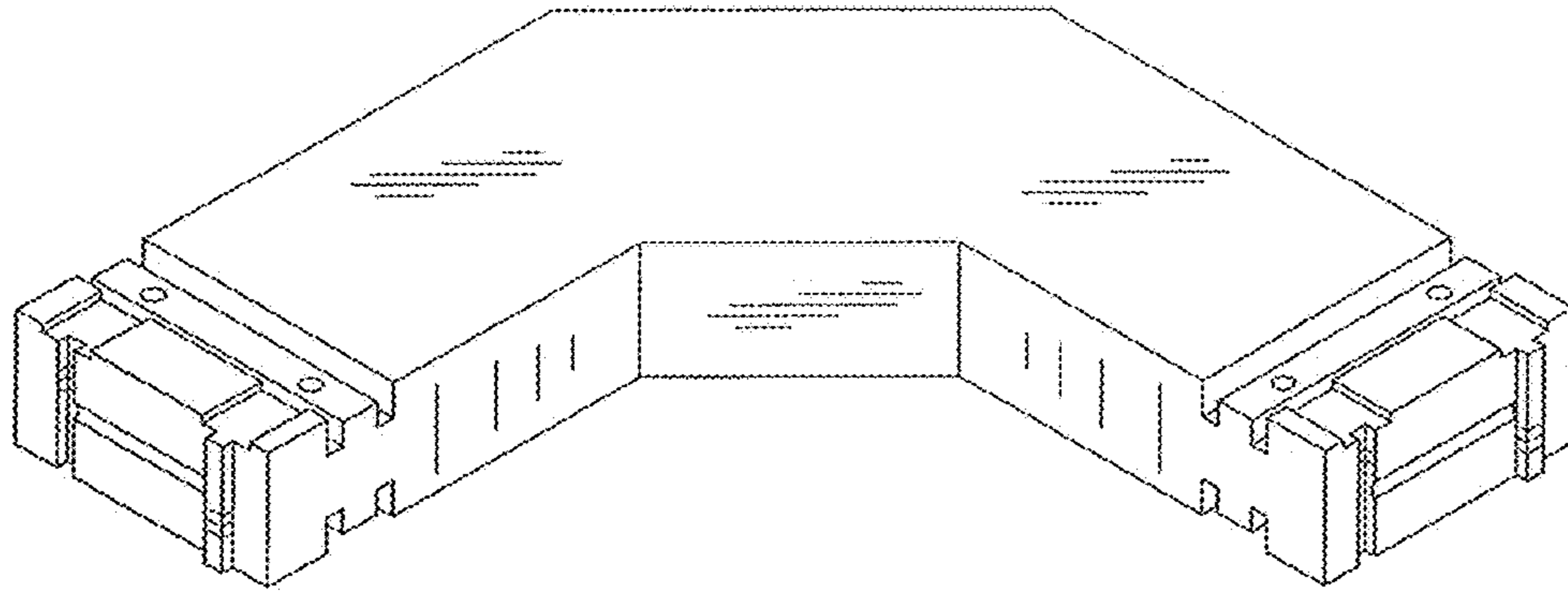


FIG. 1

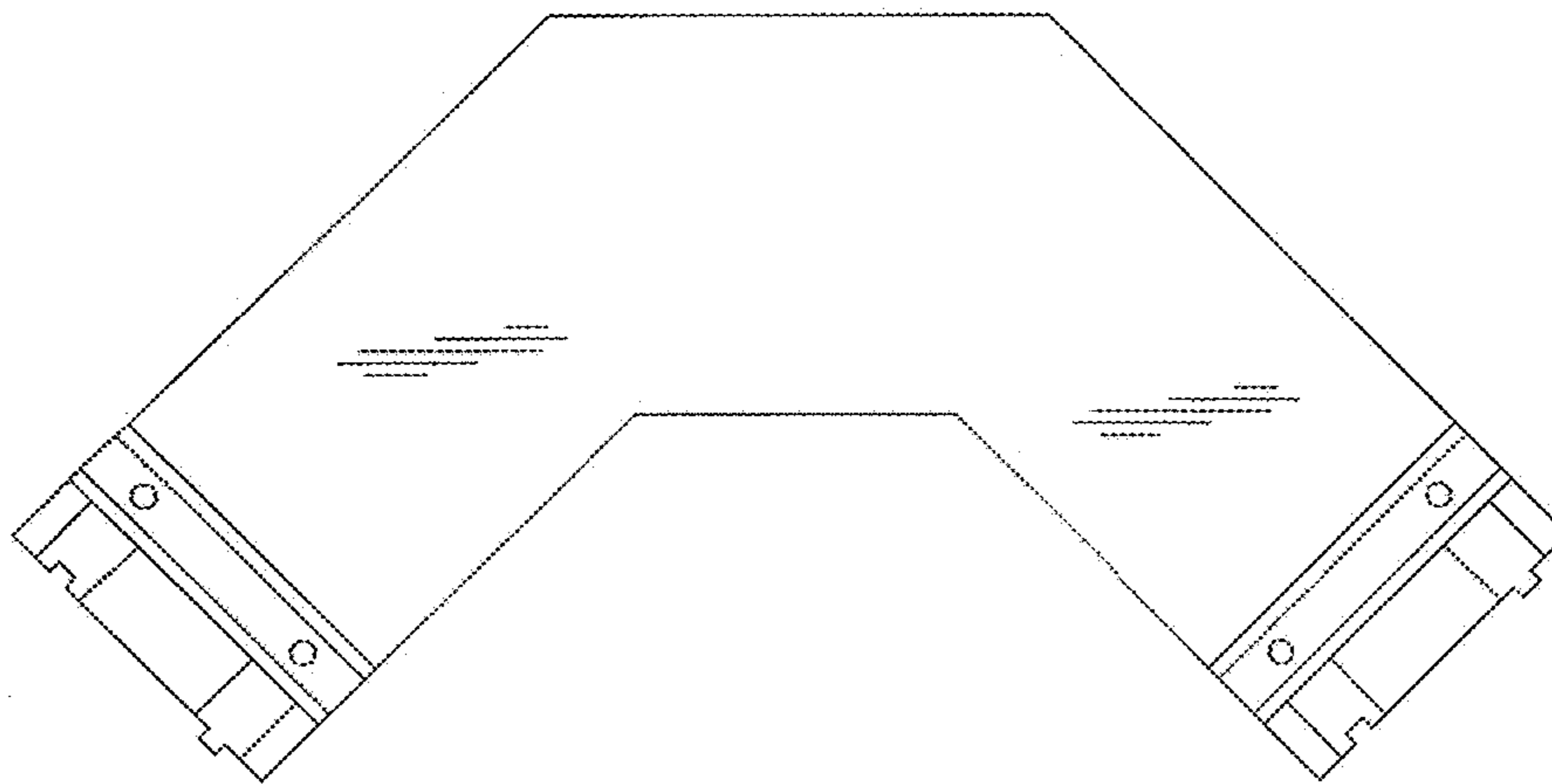


FIG. 2

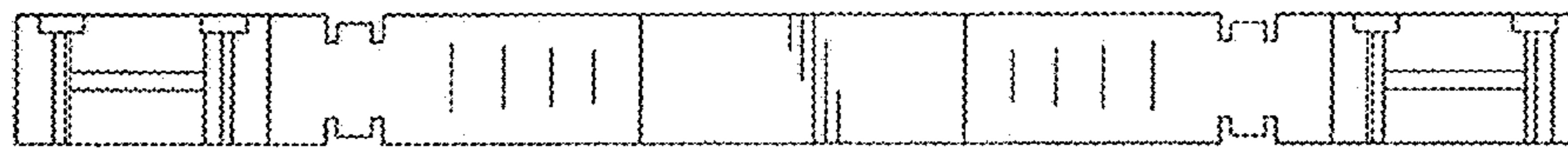


FIG. 3



FIG. 4

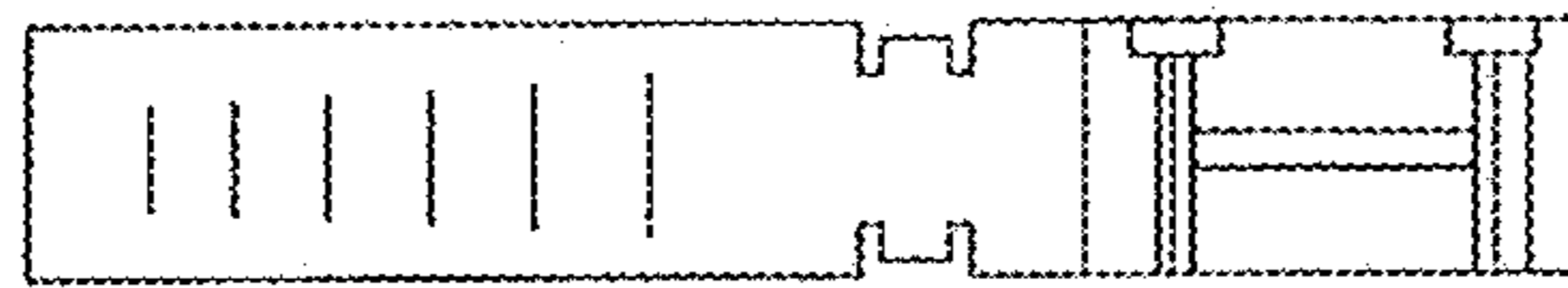


FIG. 5

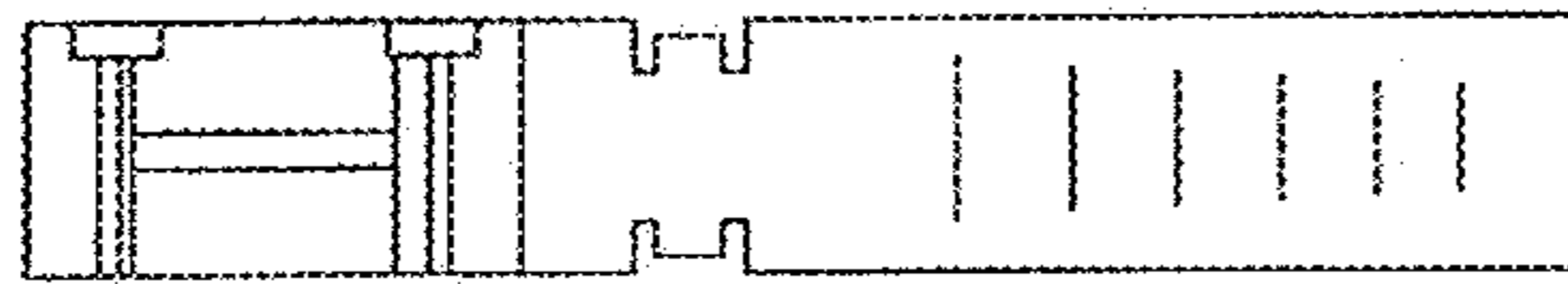


FIG. 6

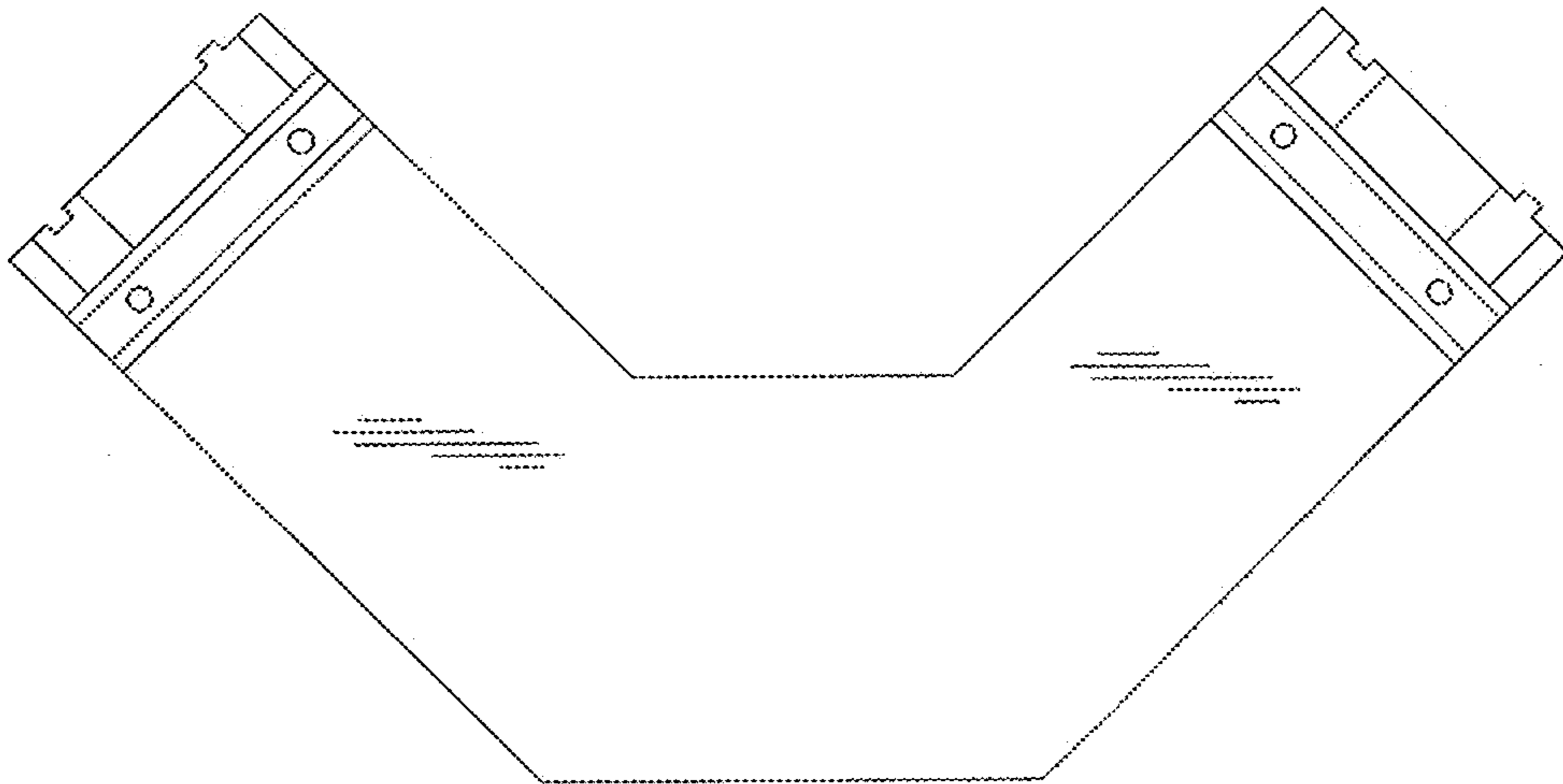


FIG. 7