



US00D850894S

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

(10) **Patent No.:** **US D850,894 S**  
(45) **Date of Patent:** **\*\* \*Jun. 11, 2019**

(54) **CONNECTING METAL MEMBER FOR A COLUMN END**

5,065,555 A \* 11/1991 Kobori ..... E04B 1/98  
248/548  
D346,627 S \* 5/1994 Bach ..... D21/501  
D390,241 S \* 2/1998 Mori ..... D15/140

(71) Applicant: **Sumitomo Forestry Co., Ltd.**, Tokyo (JP)

(Continued)

(72) Inventors: **Junichi Imai**, Tokyo (JP); **Hiroki Nakashima**, Tokyo (JP); **Takayuki Masuko**, Tokyo (JP)

FOREIGN PATENT DOCUMENTS

(73) Assignee: **Sumitomo Forestry Co., Ltd.**, Tokyo (JP)

JP 2006307568 A 11/2006  
JP 2013204228 A 10/2013  
JP 201531129 A 2/2015

(\*) Notice: This patent is subject to a terminal disclaimer.

*Primary Examiner* — Sandra S Snapp  
*Assistant Examiner* — Ieisha N Price

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

(74) *Attorney, Agent, or Firm* — The Webb Law Firm

(21) Appl. No.: **29/605,114**

(57) **CLAIM**

(22) Filed: **May 24, 2017**

The ornamental design for a connecting metal member for a column end, as shown and described.

(30) **Foreign Application Priority Data**

Sep. 26, 2016 (JP) ..... 2016-020537

(51) **LOC (11) Cl.** ..... **08-08**

(52) **U.S. Cl.**  
USPC ..... **D8/382; D8/354**

(58) **Field of Classification Search**  
USPC ..... D8/382, 394, 383, 354, 349, 387, 396, D8/399, 367, 71, 72; D25/102, 133, 199, D25/126  
CPC ... E04B 1/18; E04B 1/185; E04B 1/24; E04B 2001/2406; E04B 2001/2415; E04B 2001/2463; E04B 1/26; E04B 2001/2644; E04B 2001/2648; E04B 2001/268; E04B 2001/2684; E04B 2001/2692; E04B 1/58; E04B 1/38; E04C 3/36; E04H 9/021  
See application file for complete search history.

**DESCRIPTION**

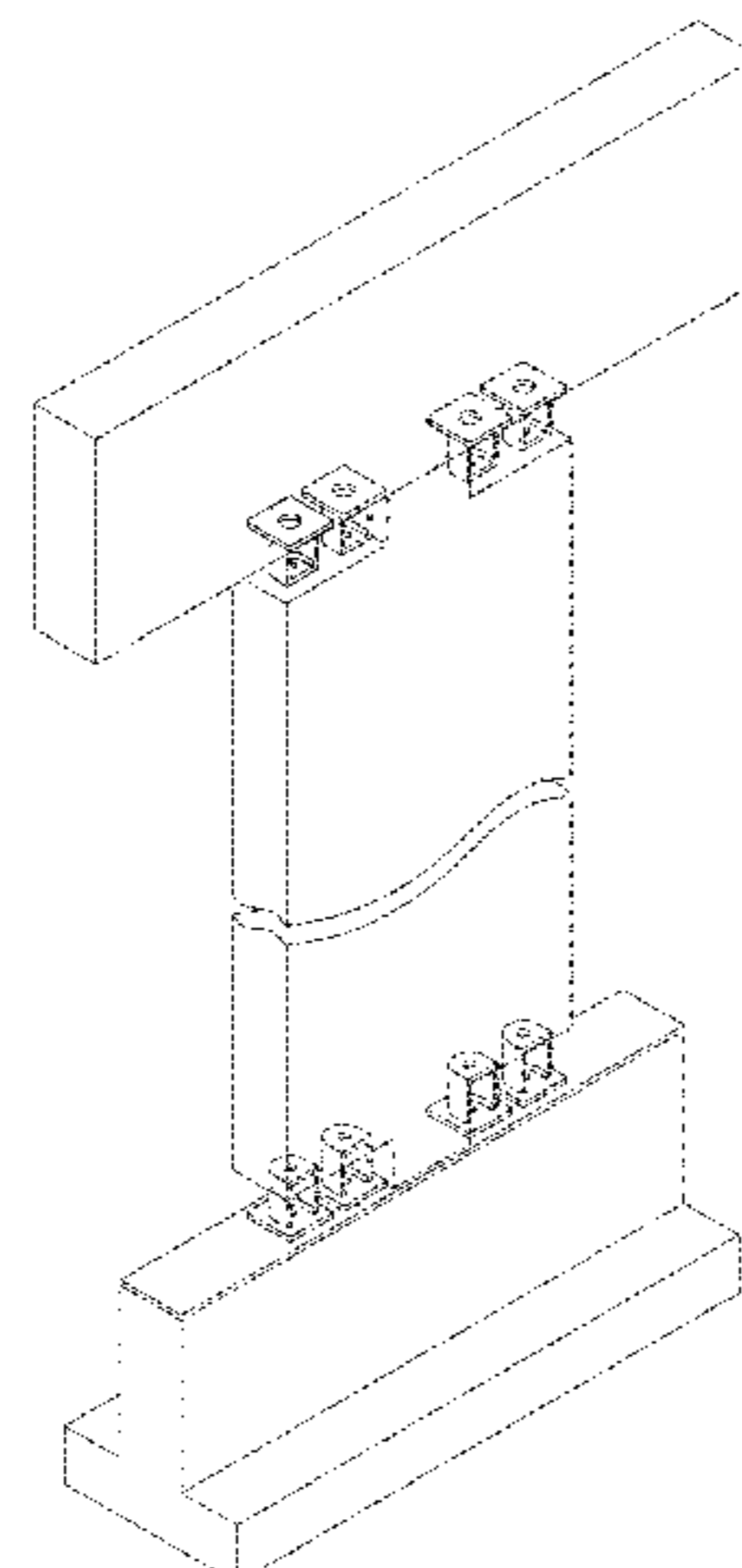
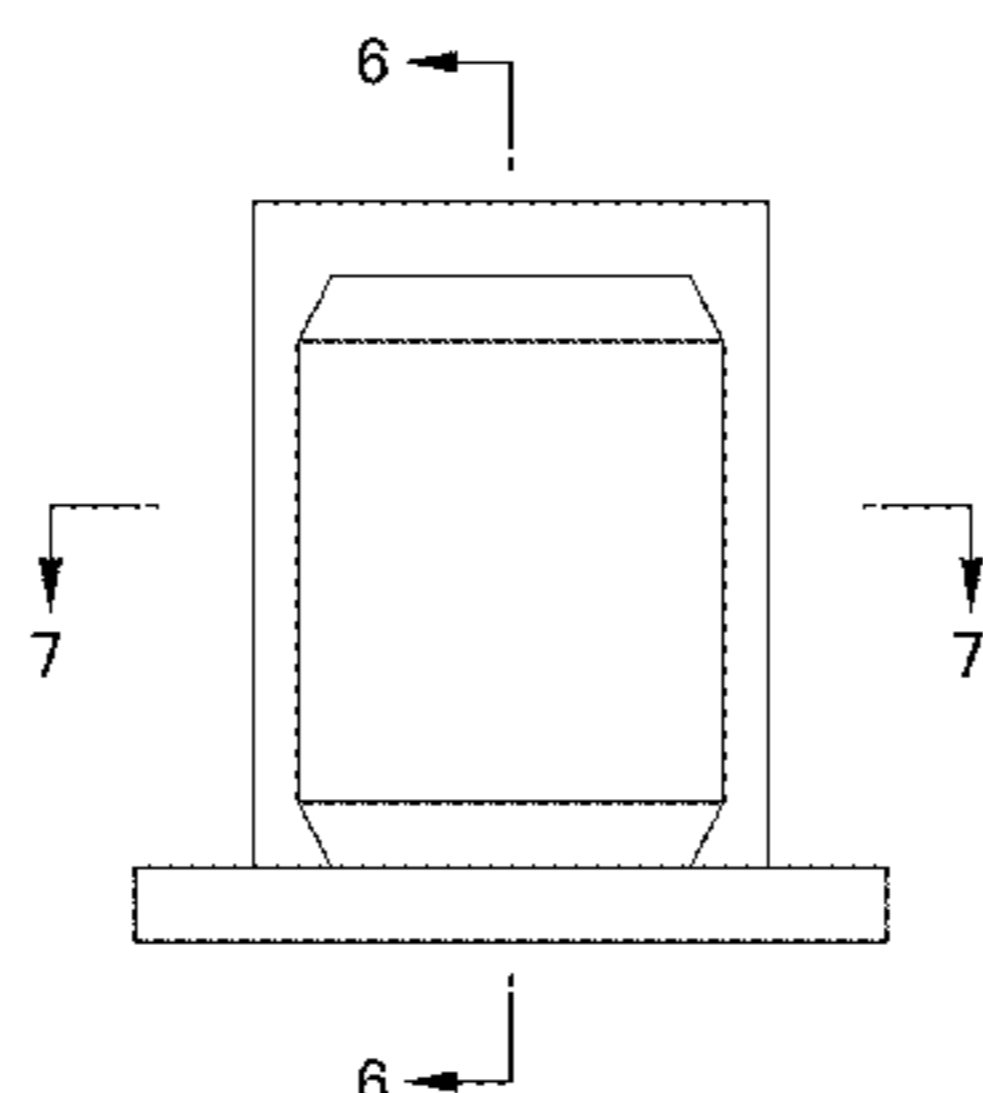
FIG. 1 is a front elevation view of a connecting metal member for a column end showing our new design; FIG. 2 is a rear elevation view thereof; FIG. 3 is a top view thereof; FIG. 4 is a bottom view thereof; FIG. 5 is a right side elevation view thereof; FIG. 6 is a cross-sectional view thereof taken along lines 6-6 shown in FIG. 1; FIG. 7 is a cross-sectional view thereof taken along lines 7-7 shown in FIG. 1; and, FIG. 8 is a perspective view thereof in a condition of use. The broken lines shown in FIG. 8 are for the purpose of illustrating environmental structure and form no part of the claimed design. The article embodied by the claimed design is used as a connector which joins an end of a wood column in a wooden structure to a laterally disposed member, such as a beam or foundation.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D270,516 S \* 9/1983 Achille ..... D8/354  
D279,959 S \* 8/1985 Nimmo ..... D8/382

**1 Claim, 8 Drawing Sheets**



(56)

References Cited

U.S. PATENT DOCUMENTS

D409,895	S *	5/1999	Schron, Jr. ....	D8/349
D476,555	S *	7/2003	Niwa .....	D6/328
D515,910	S *	2/2006	Gates .....	B60R 9/06
				D8/354
D534,791	S *	1/2007	Fujiwara .....	D8/382
D557,796	S *	12/2007	Esjunin .....	D23/422
D570,198	S *	6/2008	Mamula .....	D8/354
D628,057	S *	11/2010	Benne .....	D8/380
D628,539	S *	12/2010	Tezak .....	D13/152
D658,977	S *	5/2012	Riddell .....	D8/394
D742,210	S *	11/2015	Carrubba .....	D8/382
9,249,817	B2	2/2016	Imai et al.	
D754,522	S *	4/2016	Wicken .....	D8/349
D782,292	S *	3/2017	Wessel .....	D8/382
D809,909	S *	2/2018	Neoh .....	D8/395
D811,209	S *	2/2018	Tincher .....	D8/399
2001/0005961	A1 *	7/2001	Fukuta .....	B65G 1/02
				52/167.3
2006/0144008	A1 *	7/2006	Fouch .....	E04B 1/26
				52/292
2012/0038091	A1 *	2/2012	Tagawa .....	E04H 9/021
				267/136
2014/0191104	A1 *	7/2014	Meisel .....	E04H 9/021
				248/624
2015/0043966	A1	2/2015	Nagashima et al.	
2016/0258161	A1 *	9/2016	Imai .....	E04B 1/38
2017/0183861	A1 *	6/2017	Calderon Urizar-Aldaca .....	E04B 1/215

\* cited by examiner

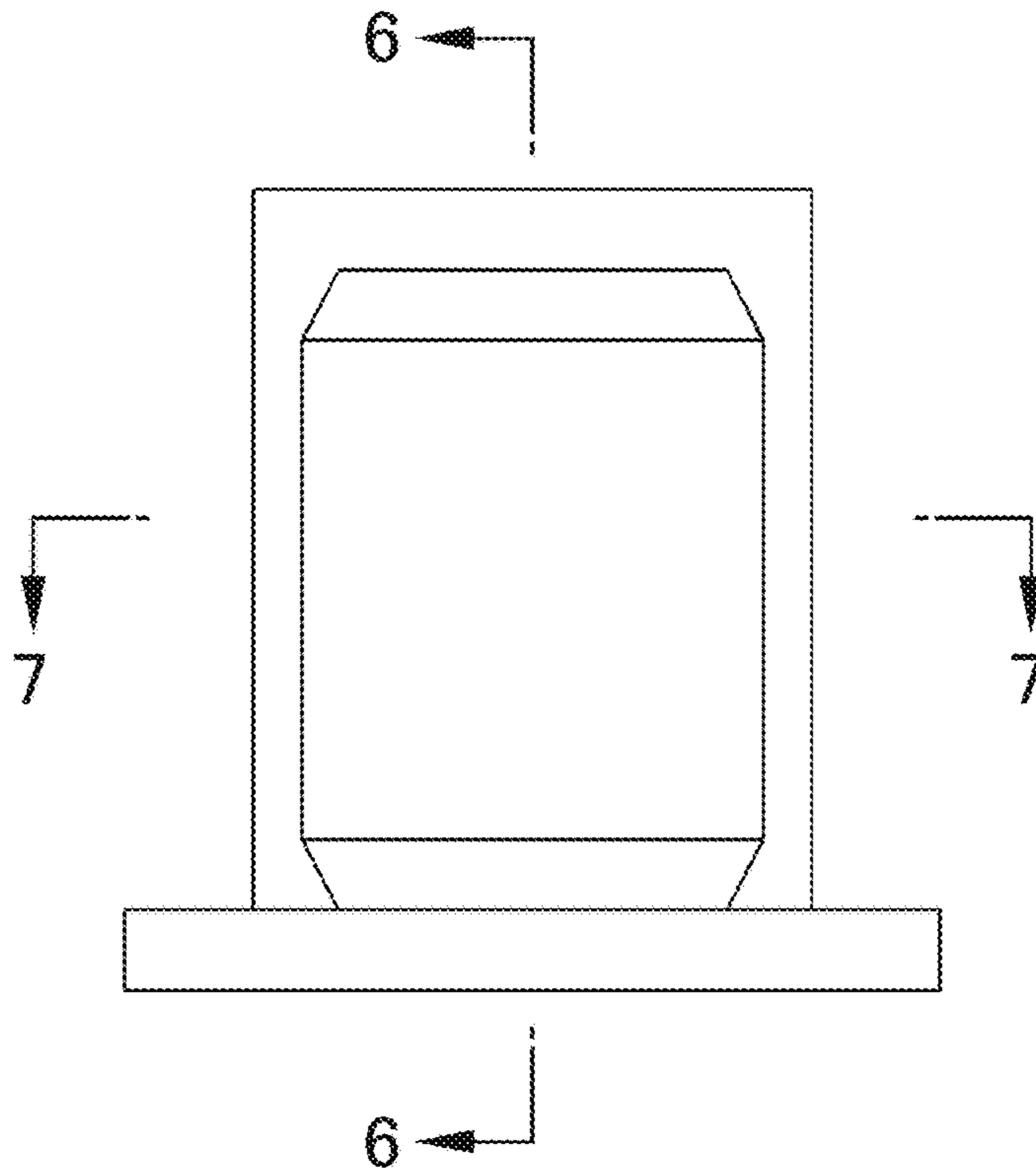


FIG. 1

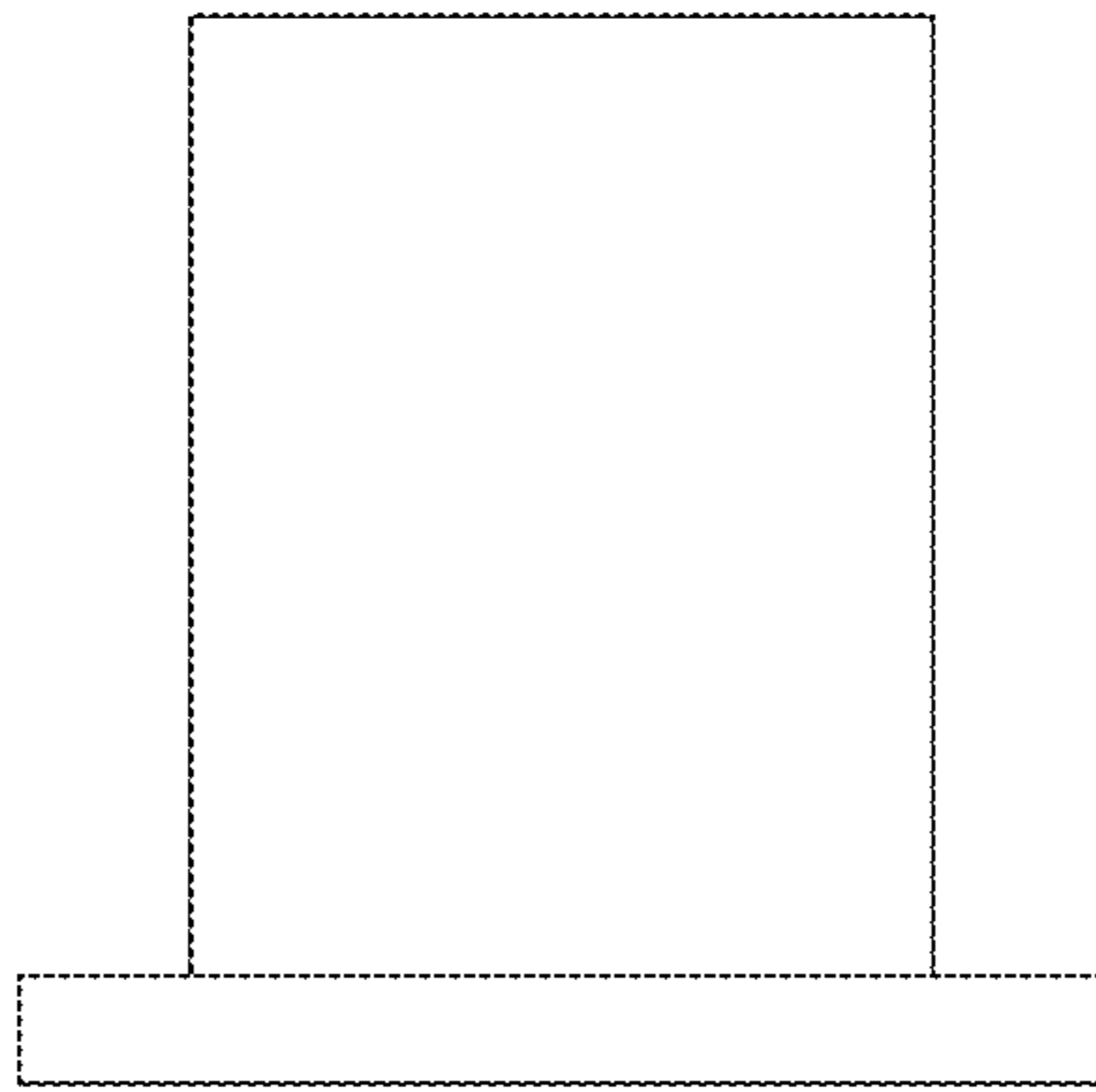


FIG. 2

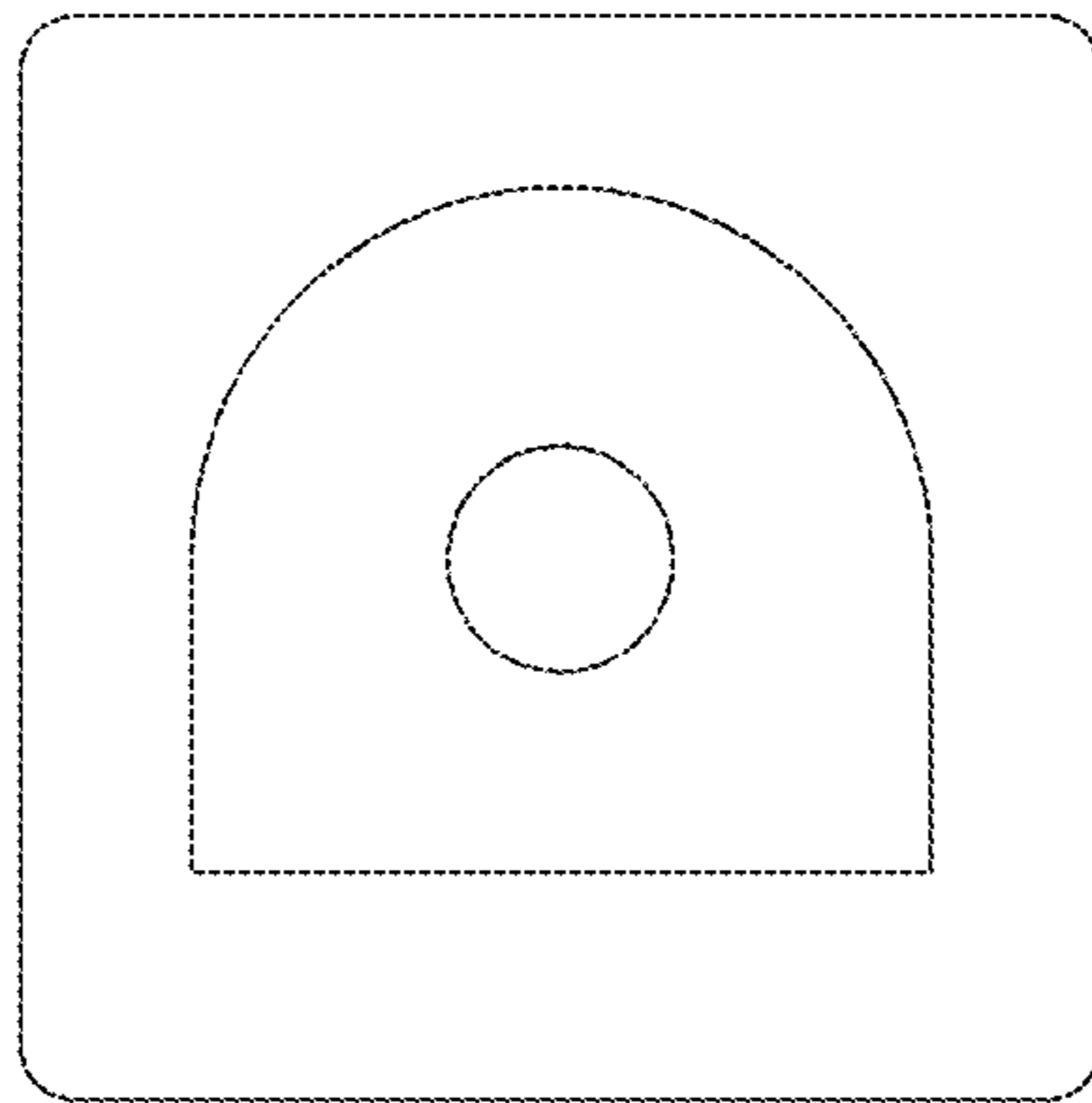


FIG. 3

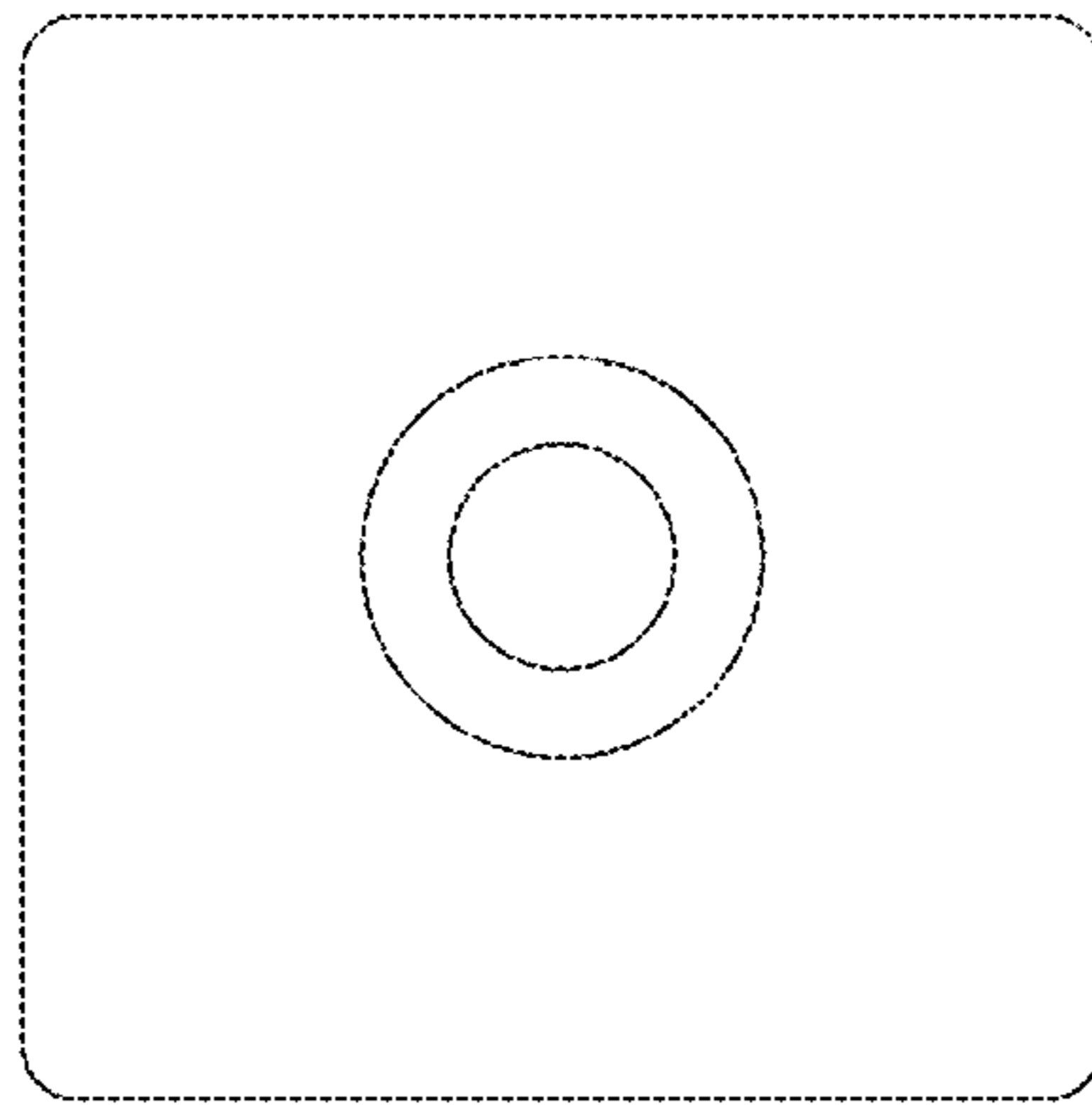


FIG. 4

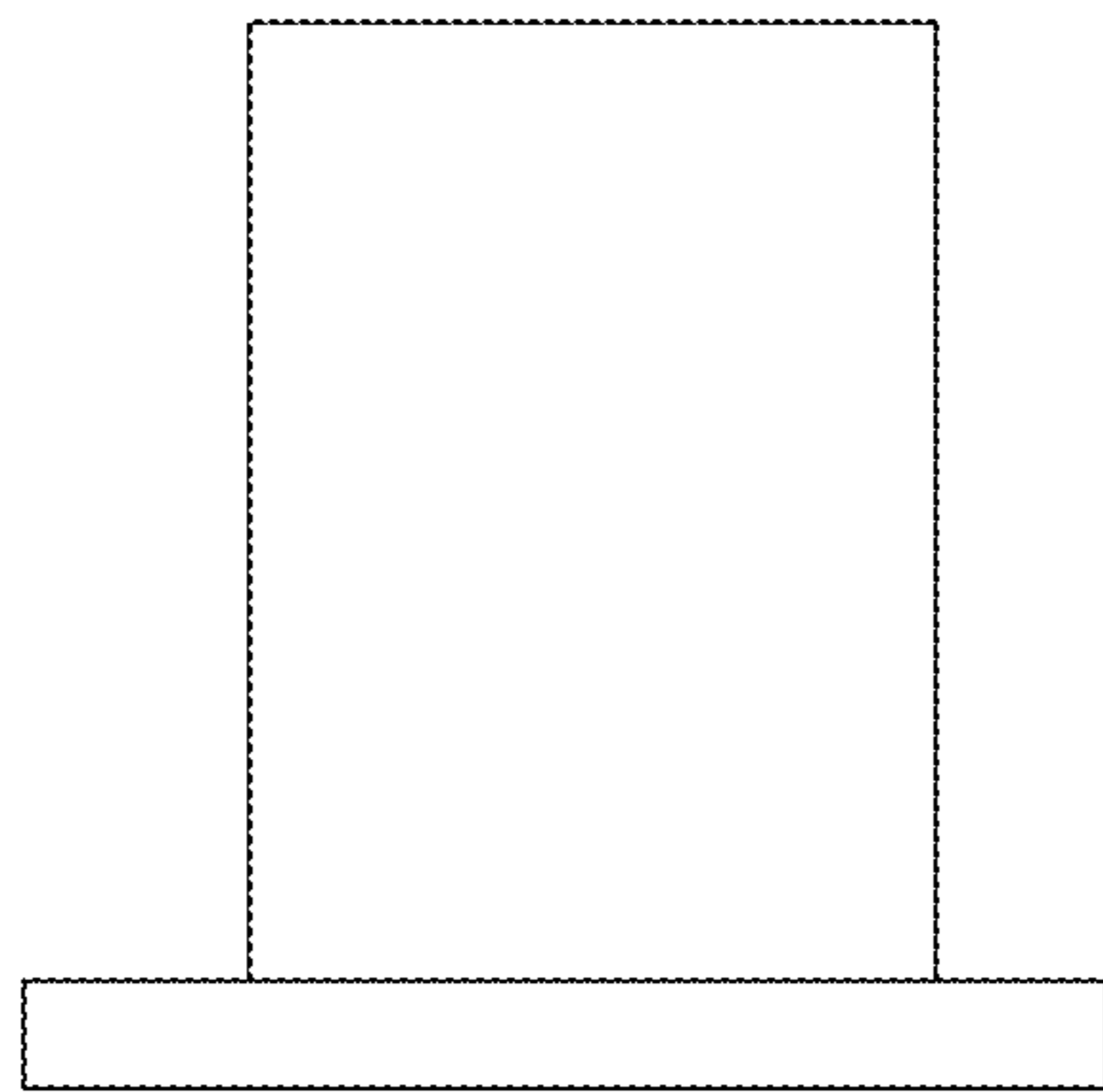


FIG. 5

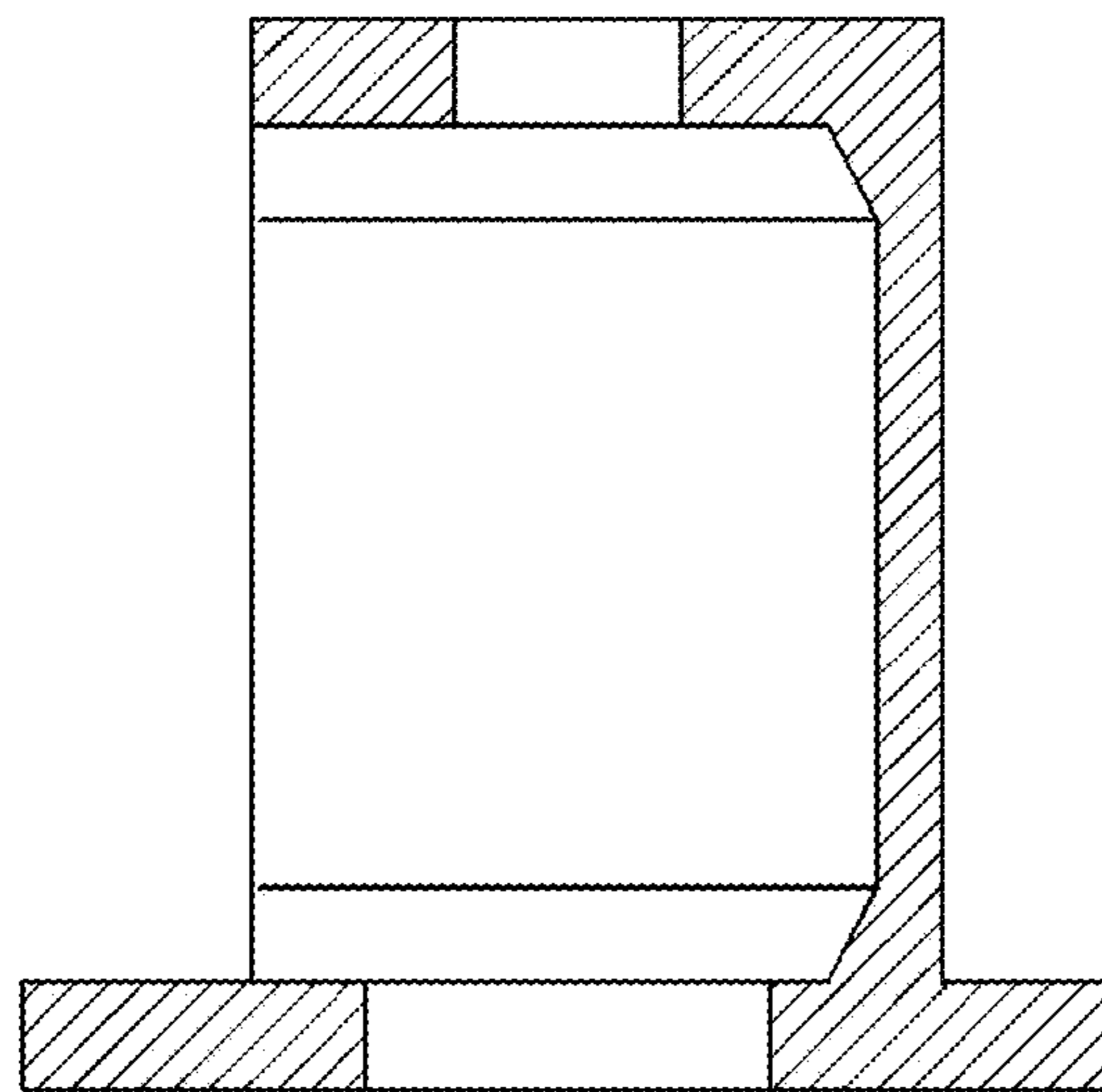


FIG. 6



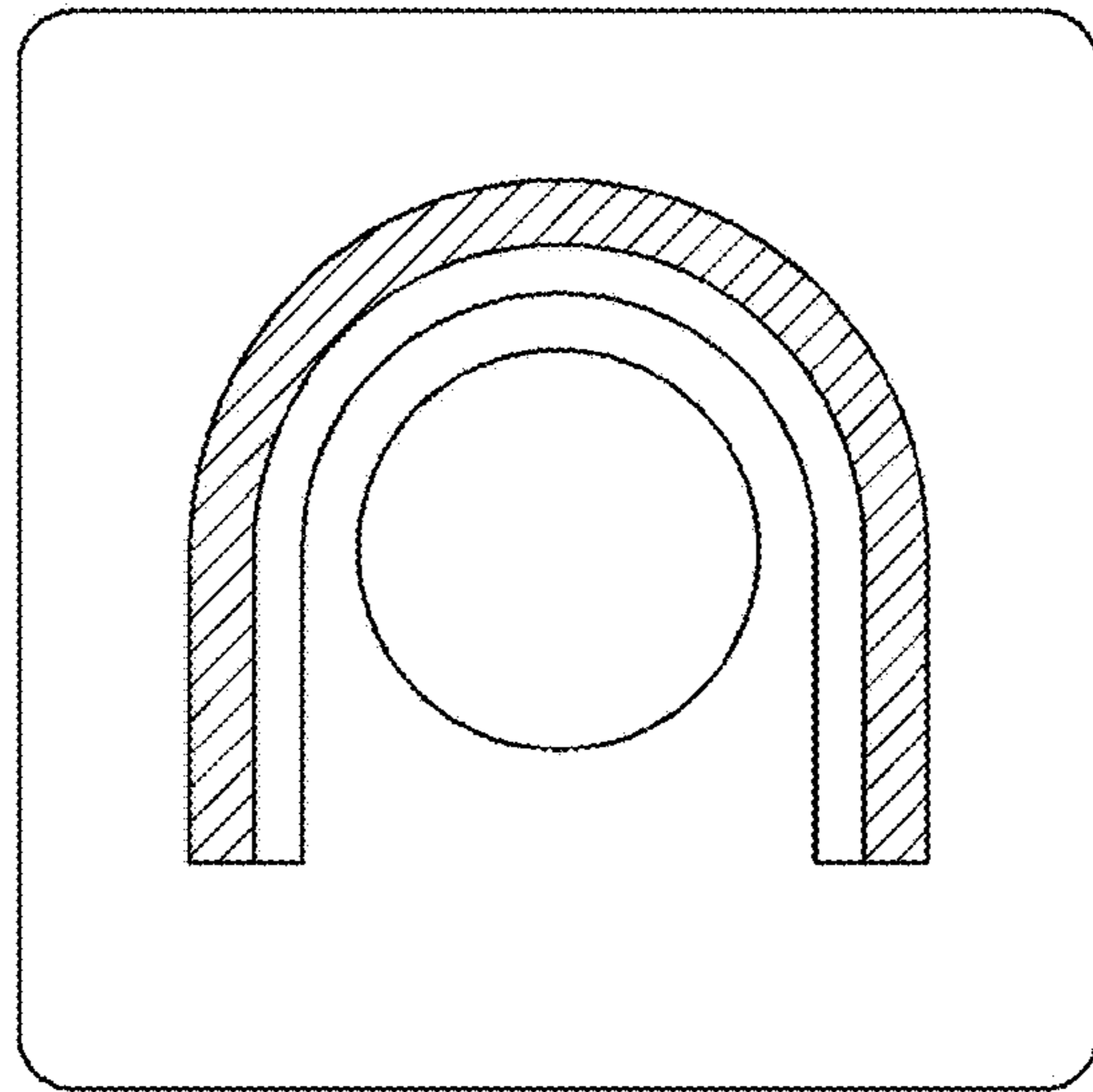


FIG. 7

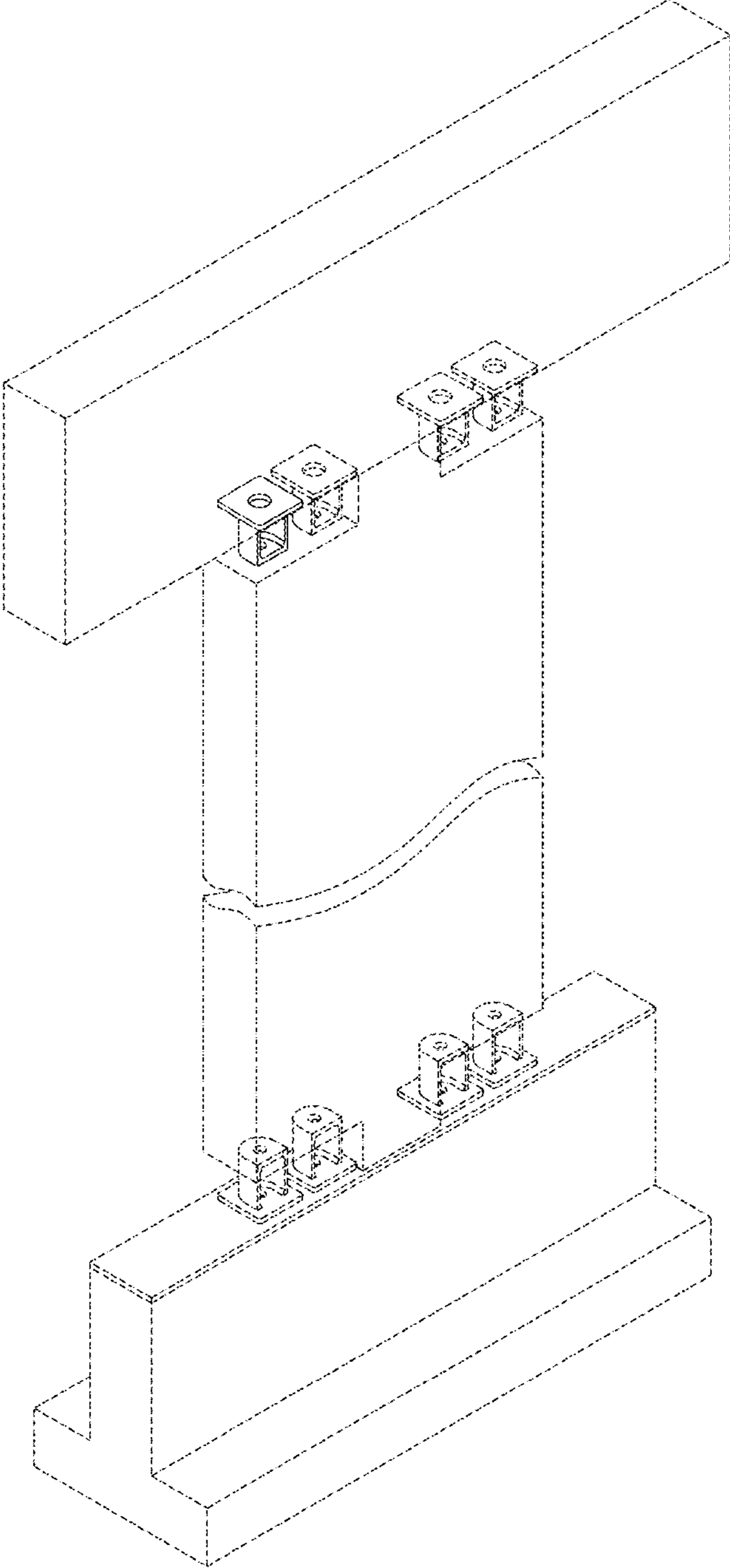


FIG. 8