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

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(54) **THREAD CARTRIDGE FOR EMBROIDERY MACHINE**

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(30) **Foreign Application Priority Data**

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(51) **LOC (7) Cl.** ..... **15-03**

(52) **U.S. Cl.** ..... **D15/78**

(58) **Field of Search** ..... D15/66-78; D8/395,  
D8/396, 388, 391, 366, 373; 112/102, 102.11,  
258-262.1, 102.5; 264/161; 248/68.1, 71;  
383/4

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

2,266,432 A \* 12/1941 Morin et al. .... 264/161  
3,430,903 A \* 3/1969 Mathes ..... 248/68.1  
D237,656 S \* 11/1975 Clemens ..... D15/78

4,280,420 A \* 7/1981 Nishida et al. .... 112/102  
4,955,068 A \* 9/1990 Tennihan ..... 383/4  
D369,171 S \* 4/1996 Jonson ..... D15/72  
5,651,653 A \* 7/1997 Bablo ..... 414/24.5  
D384,945 S \* 10/1997 Takada et al. .... D15/66

\* cited by examiner

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(57) **CLAIM**

The ornamental design for a thread cartridge for embroidery machine, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of a thread cartridge for embroidery machine;

FIG. 2 is a front view thereof;

FIG. 3 is a rear view thereof;

FIG. 4 is a left side view thereof;

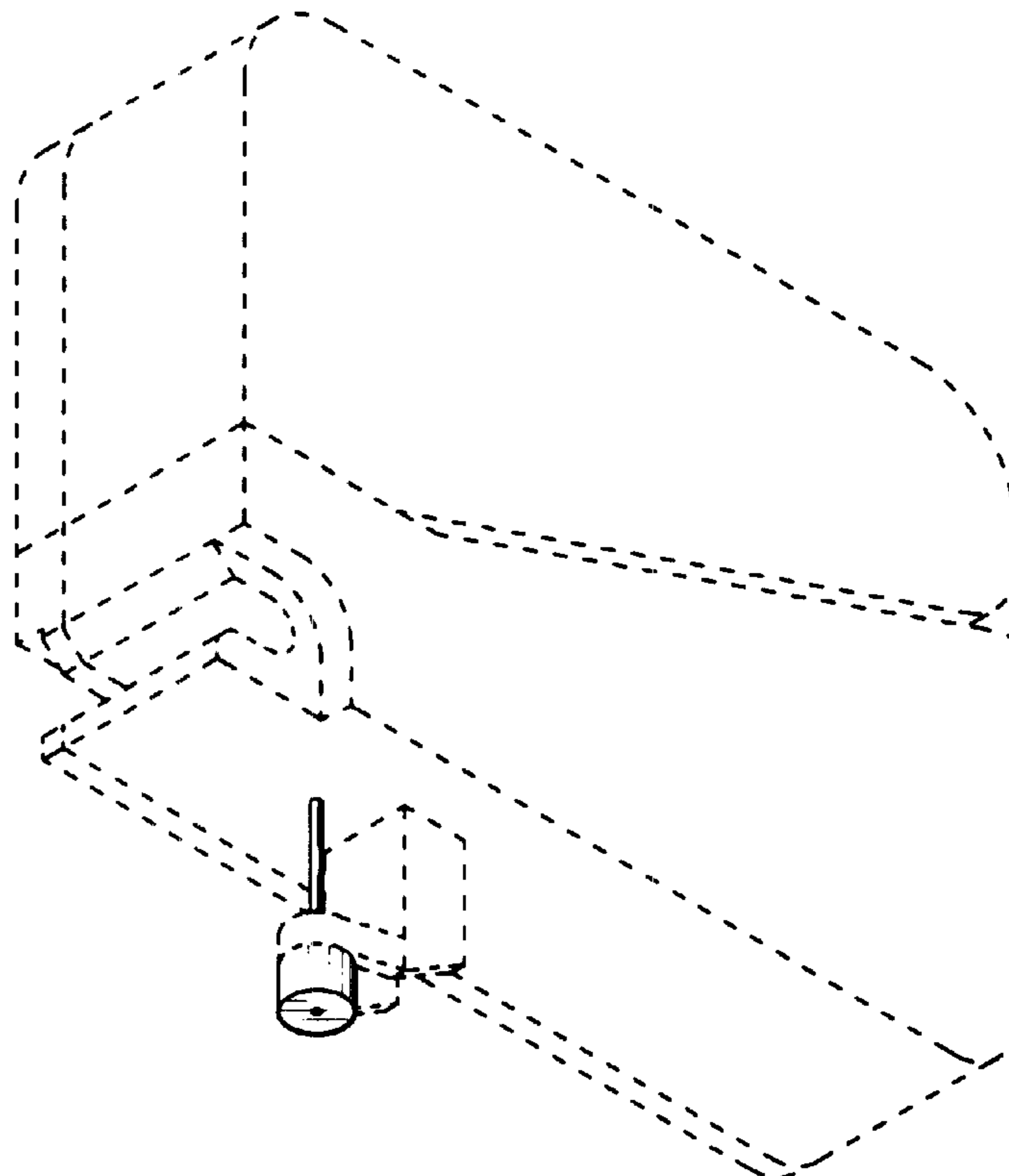
FIG. 5 is a right side view thereof;

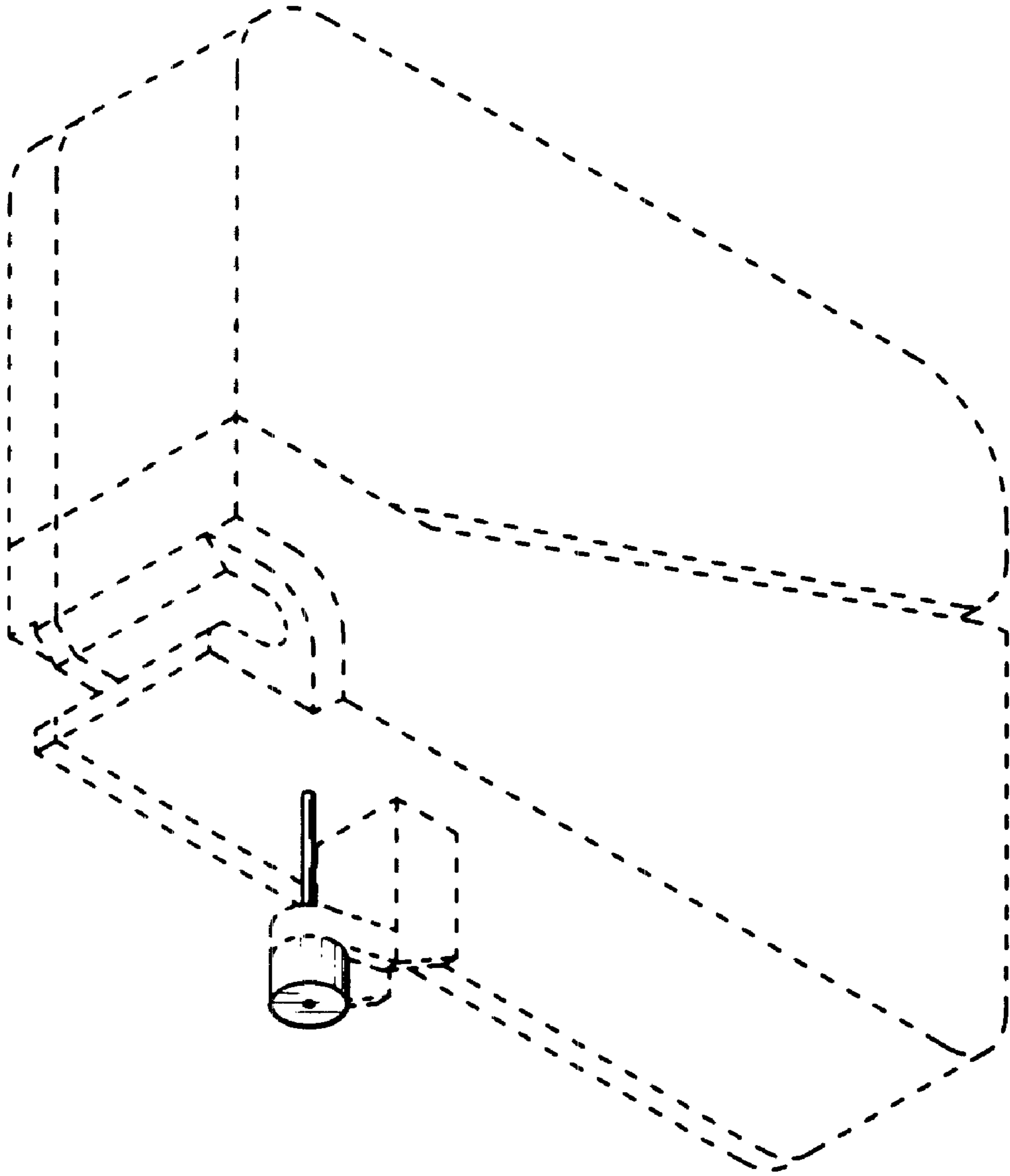
FIG. 6 is a bottom view thereof; and,

FIG. 7 is an expanded cross-sectional view thereof, taken along the lines 7—7 of FIG. 4 and between the lines 7'—7' of FIG. 4.

The top view of the thread cartridge for embroidery machine contains no ornamentality and is omitted. The broken lines define the bounds of the claimed design but form no part of the claimed design.

**1 Claim, 4 Drawing Sheets**





**FIG. 1**

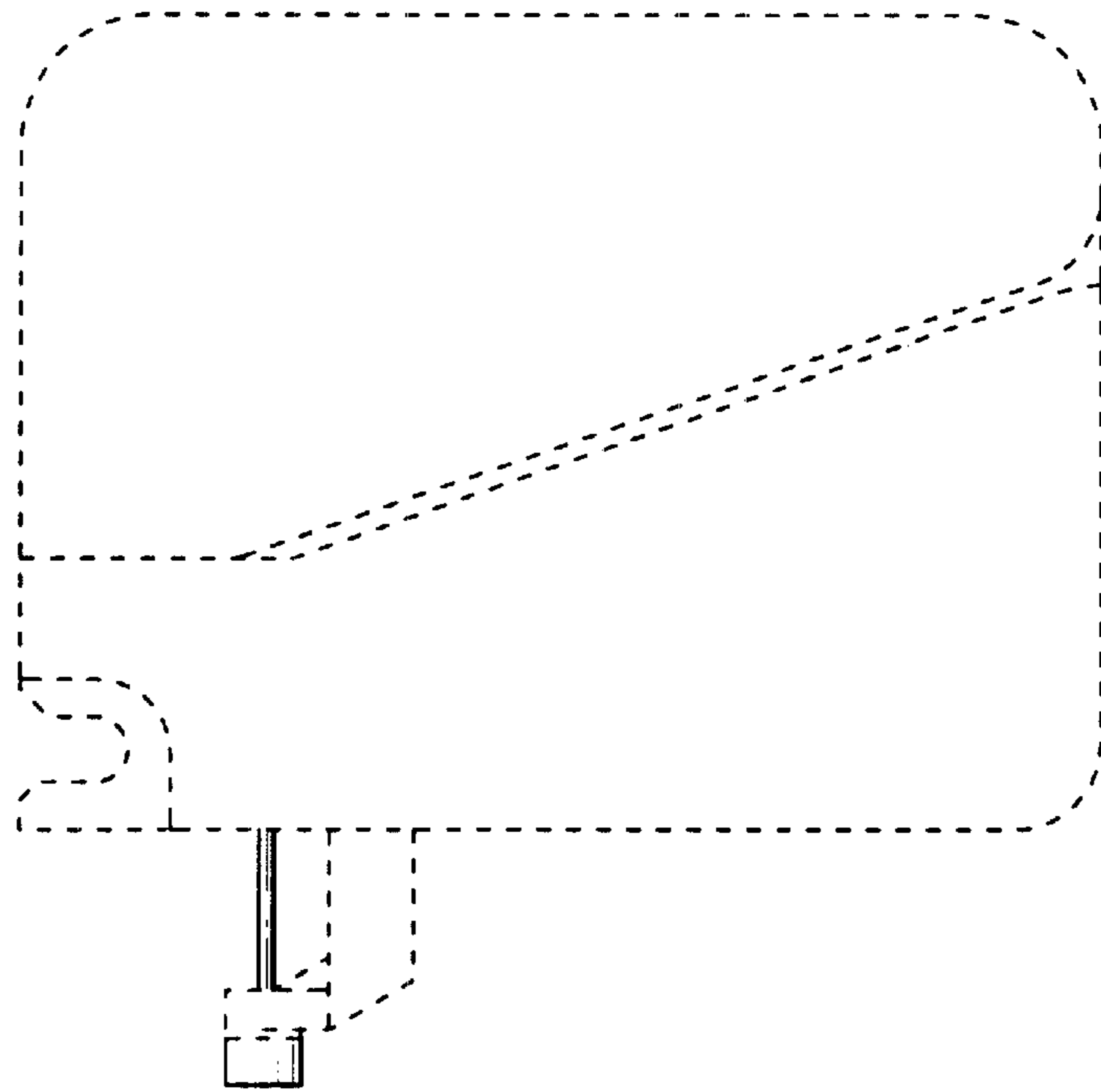


FIG. 2

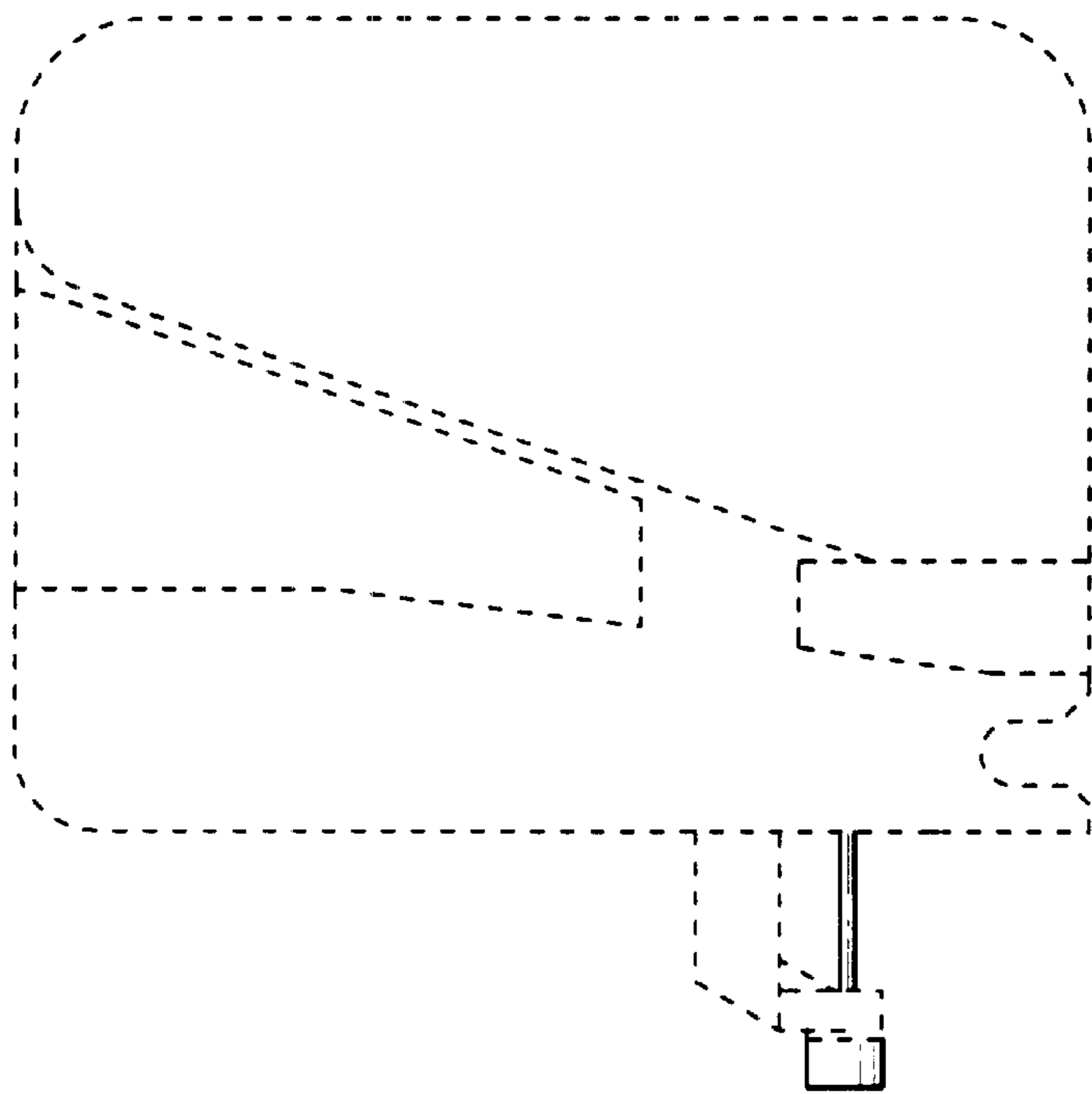


FIG. 3

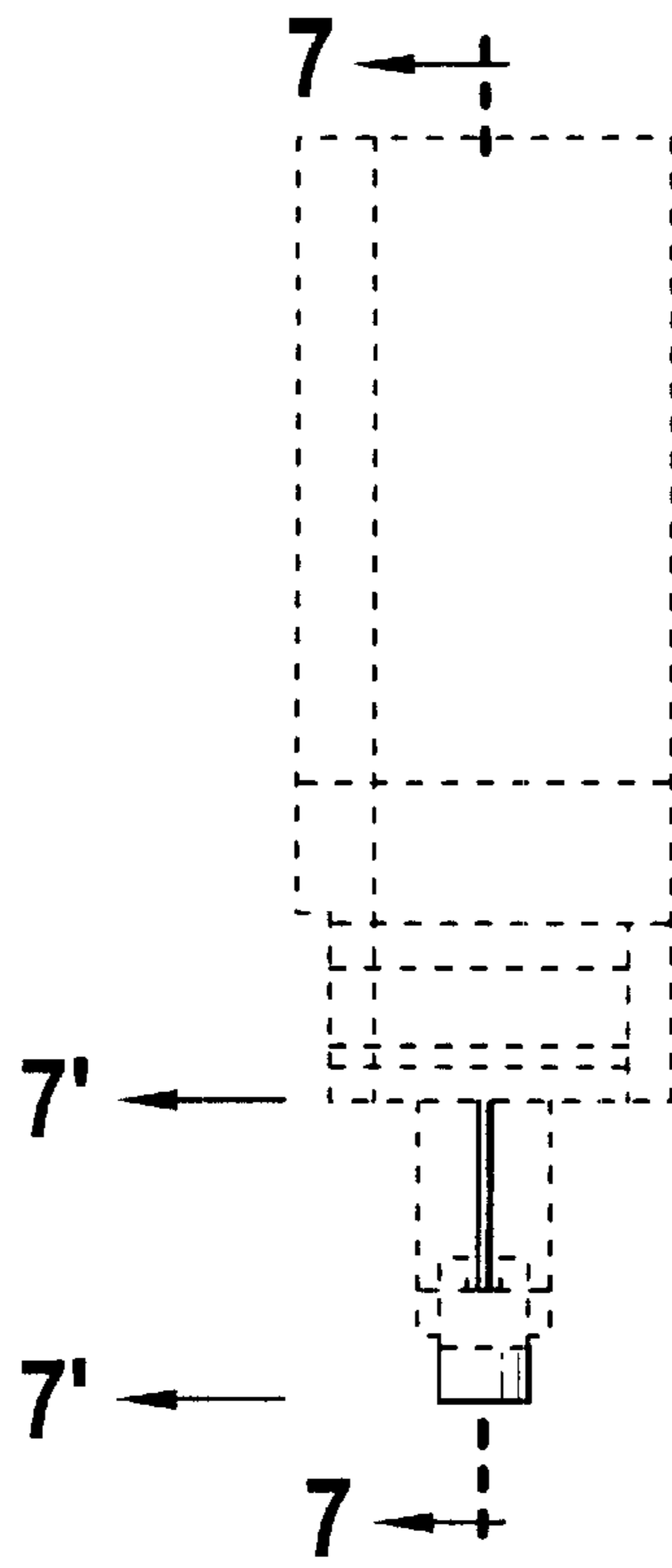


FIG. 4

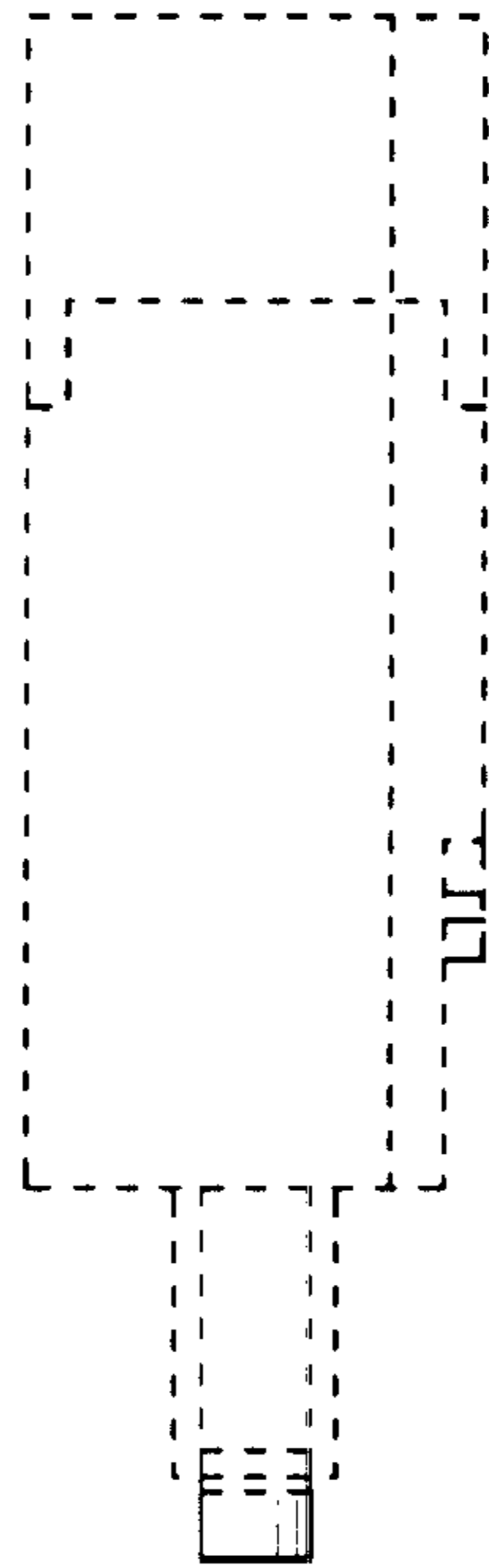
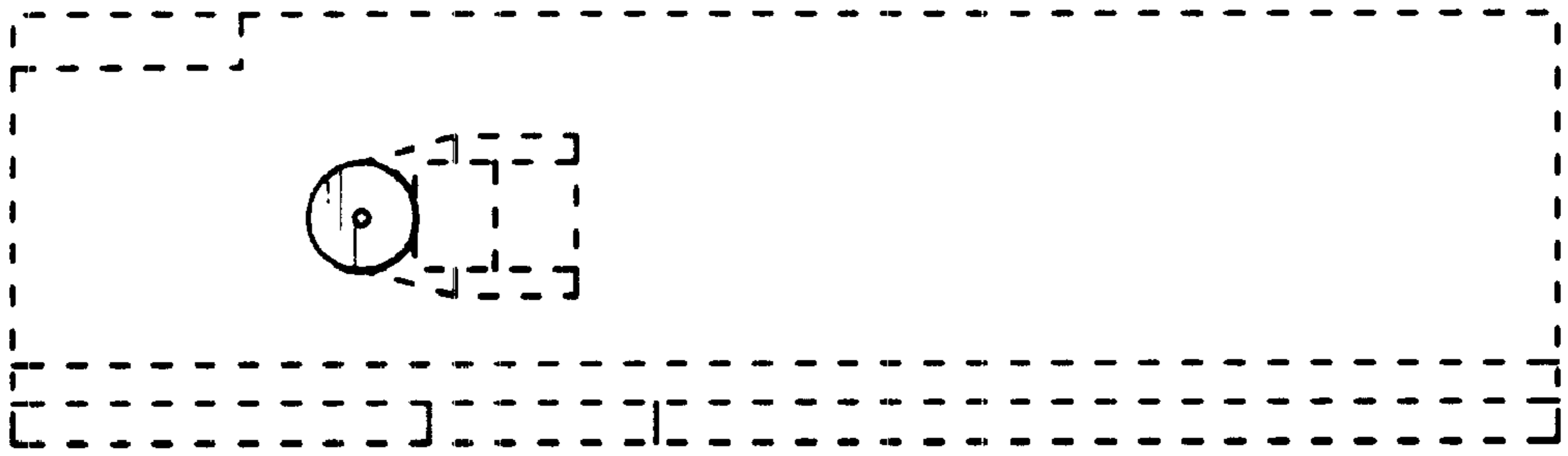
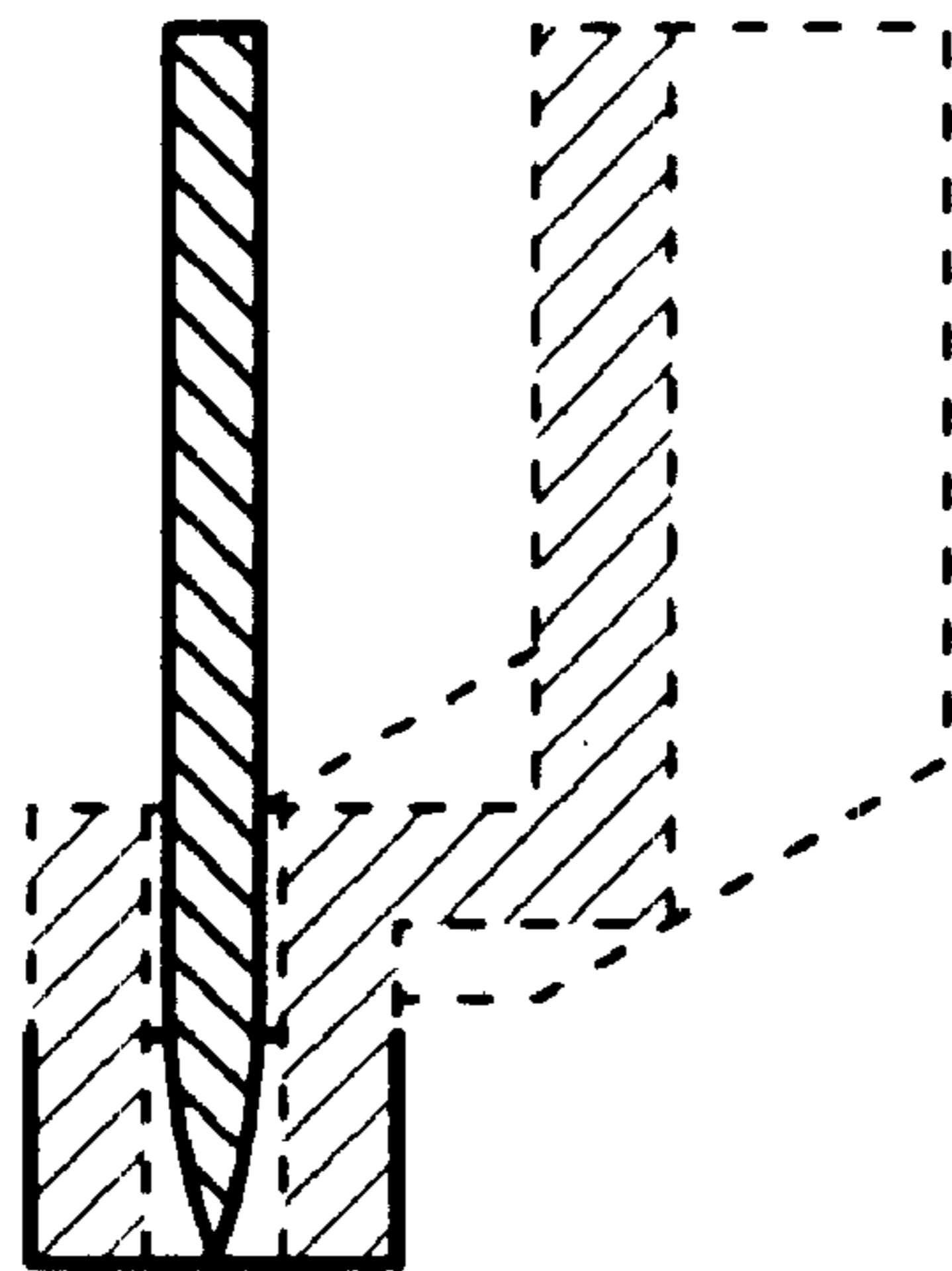


FIG. 5



**FIG. 6**



**FIG. 7**