



US00D526669S

(12) **United States Design Patent**  
**McCoppin**

(10) **Patent No.:** **US D526,669 S**

(45) **Date of Patent:** **\*\* Aug. 15, 2006**

(54) **INDEXABLE INSERT MILLING CUTTER  
HAVING AN INTEGRAL ER SHANK**

5,388,932 A \* 2/1995 DeRoche et al. .... 407/113

\* cited by examiner

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(\*\*) Term: **14 Years**

(57) **CLAIM**

(21) Appl. No.: **29/226,920**

The ornamental design for an indexable insert milling cutter having an integral ER shank, as shown and described.

(22) Filed: **Apr. 4, 2005**

**DESCRIPTION**

(51) **LOC (8) Cl.** ..... **15-09**

(52) **U.S. Cl.** ..... **D15/139**

(58) **Field of Classification Search** ..... D15/139,  
D15/127; 407/113–116, 34, 35, 53, 54, 42,  
407/63, 64, 65

FIG. 1 is a perspective view of an indexable insert milling cutter having an integral ER shank showing my new design.

FIG. 2 is a front elevational view thereof,

FIG. 3 is a rear elevational view thereof,

FIG. 4 is a right side elevational view thereof,

FIG. 5 is a left side elevational view thereof,

FIG. 6 is a top plan view thereof; and,

FIG. 7 is a bottom plan view thereof.

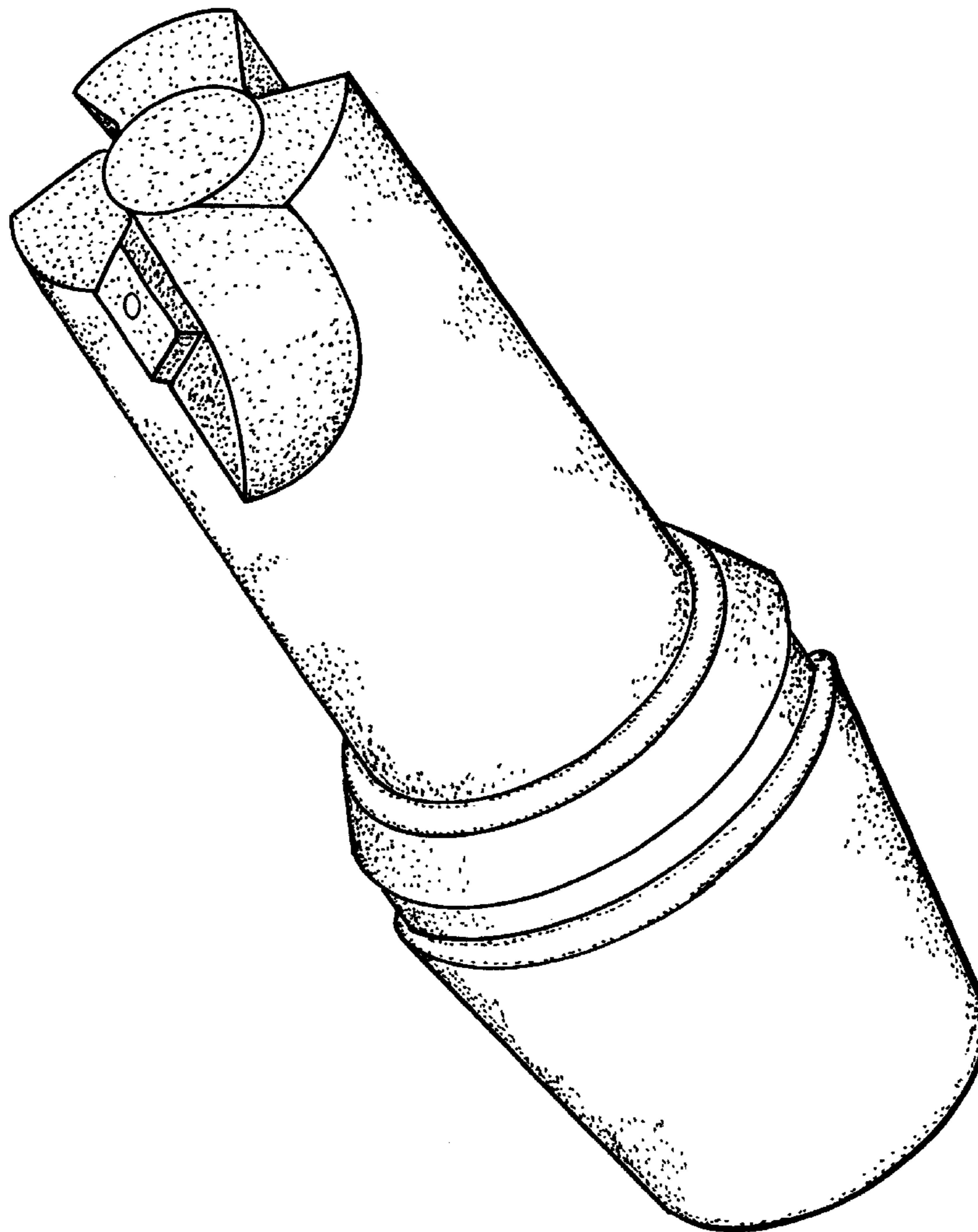
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

5,071,292 A \* 12/1991 Satran ..... 407/116

**1 Claim, 4 Drawing Sheets**



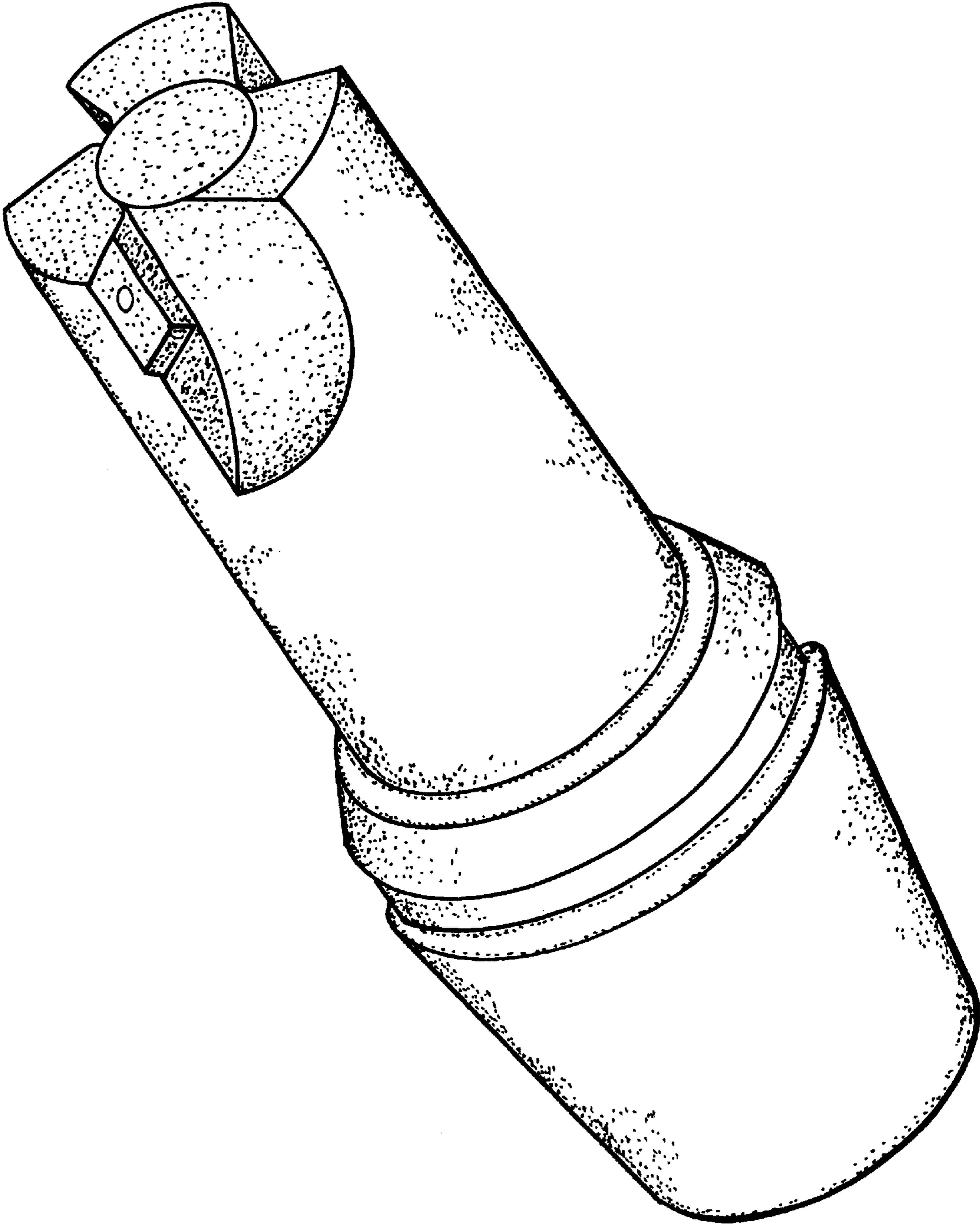


Fig. 1

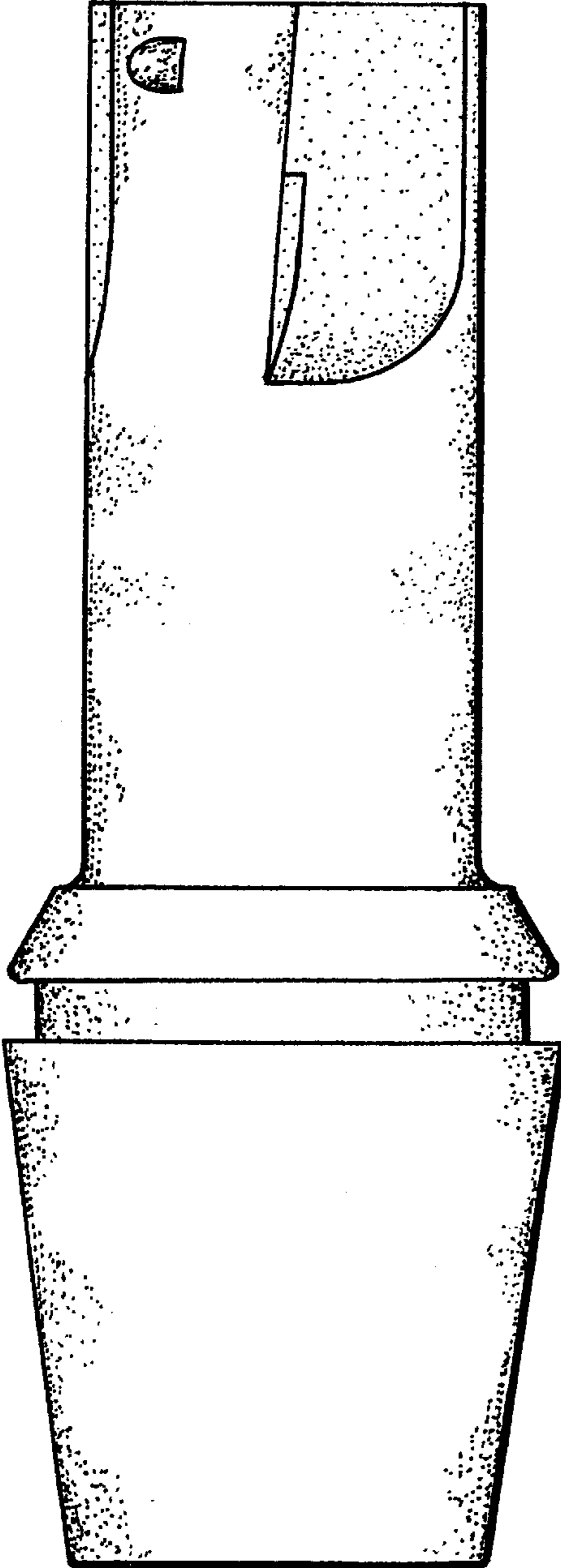


Fig. 2

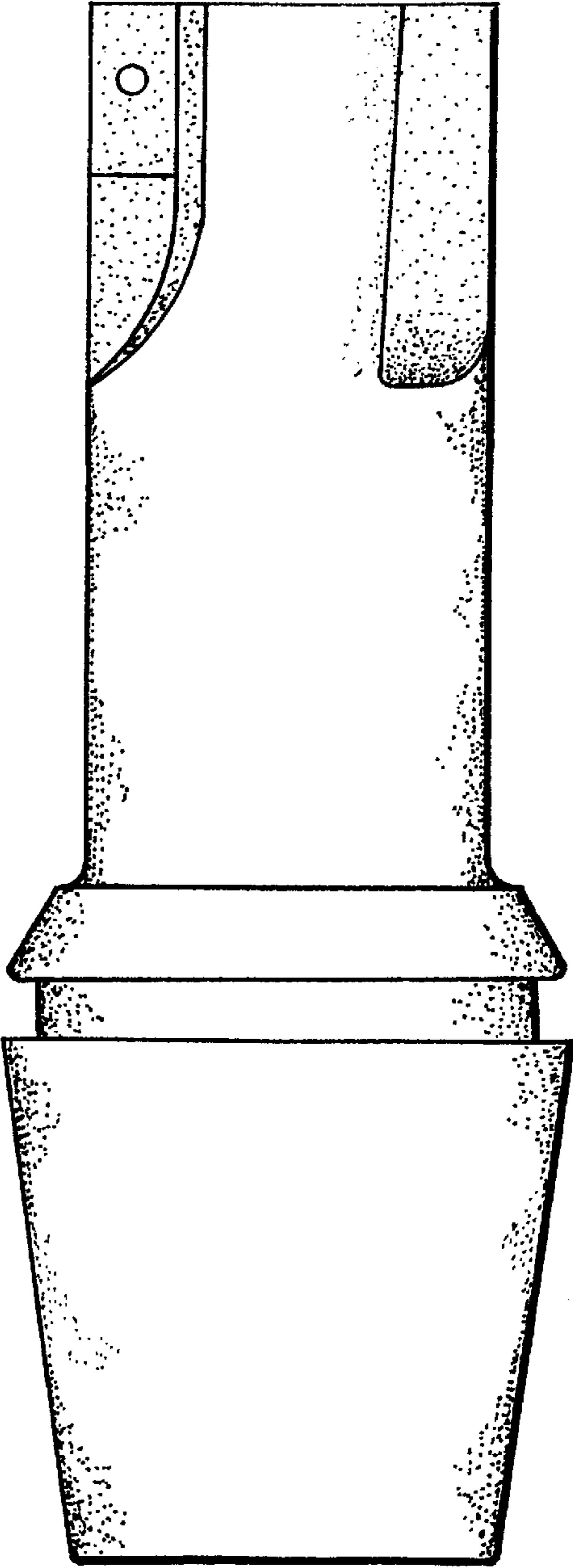


Fig. 3

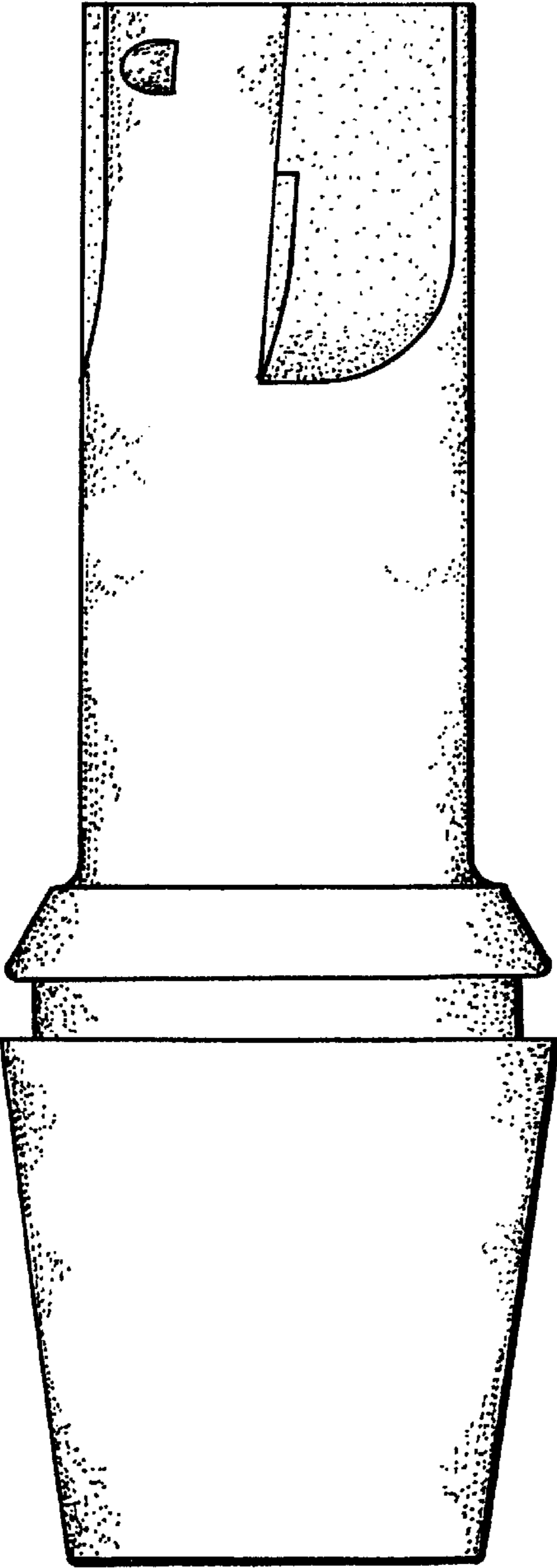


Fig. 4

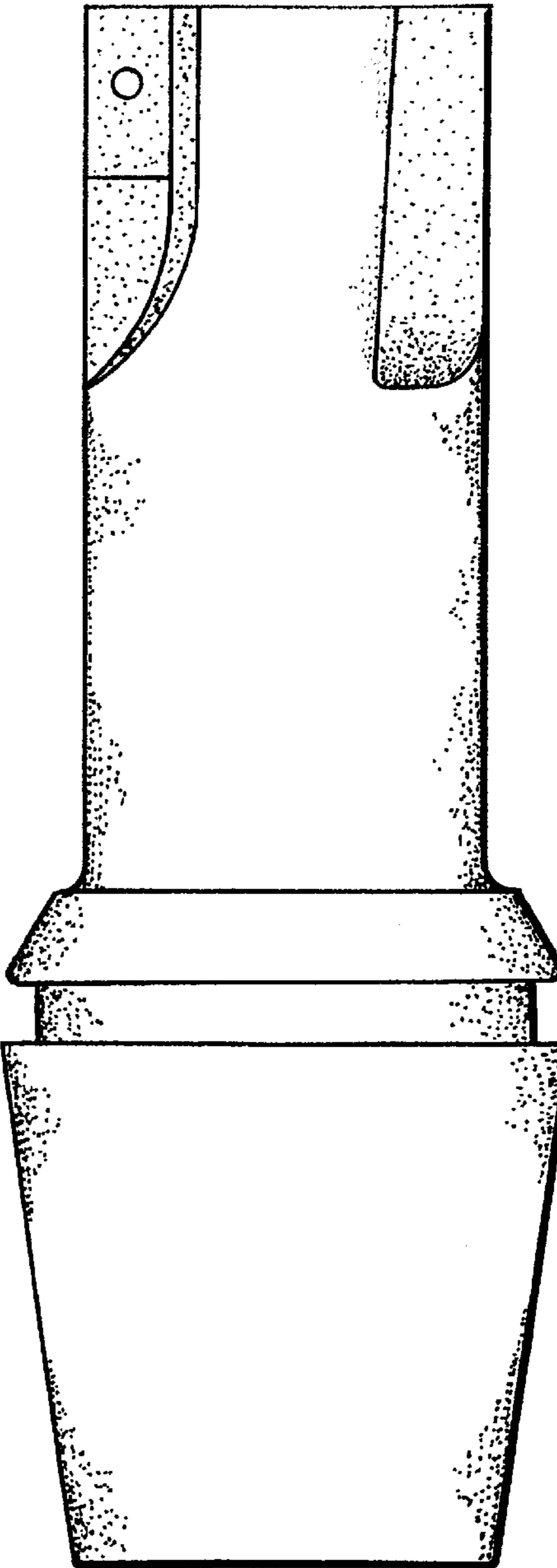


Fig. 5

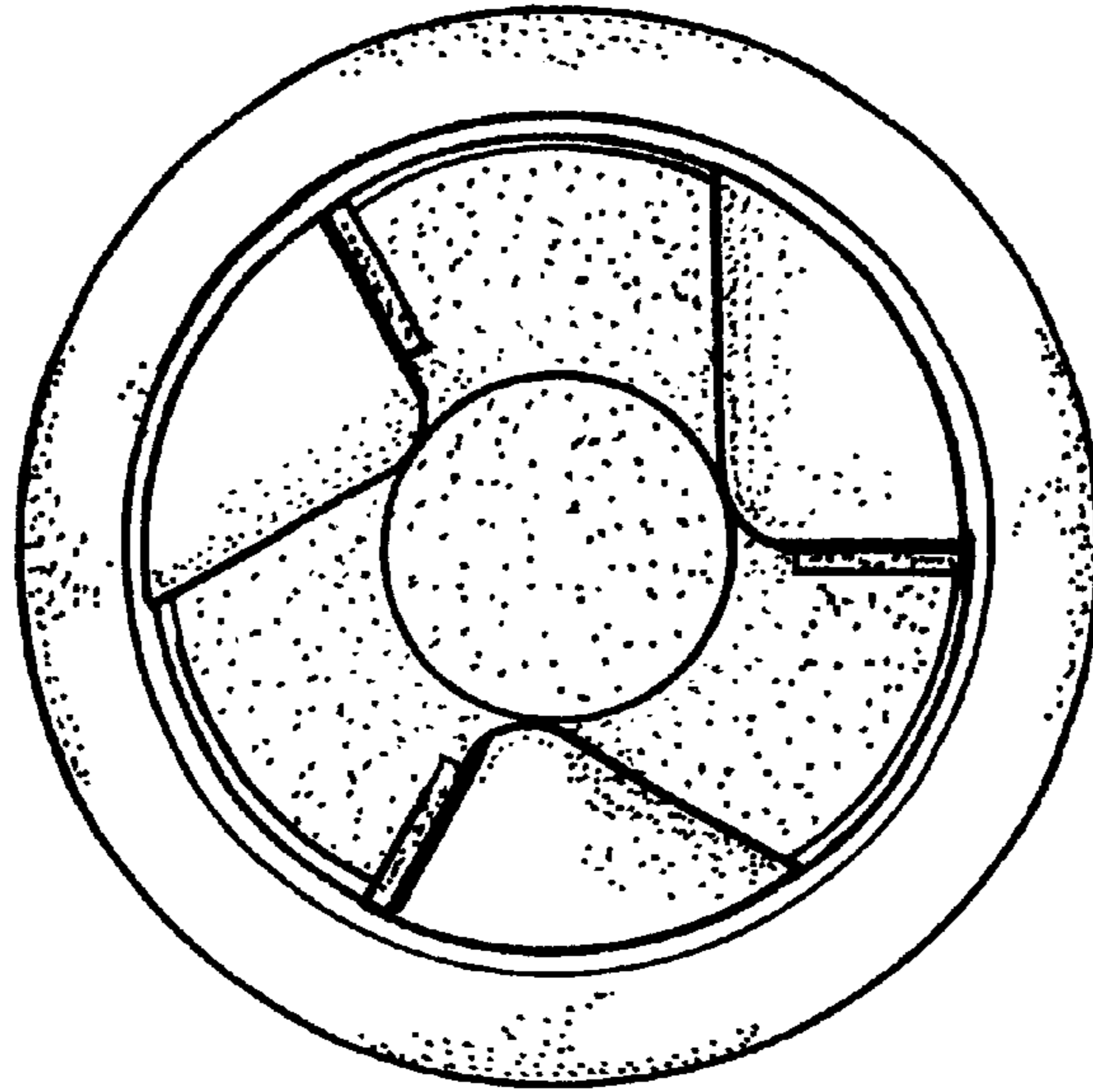


Fig. 6

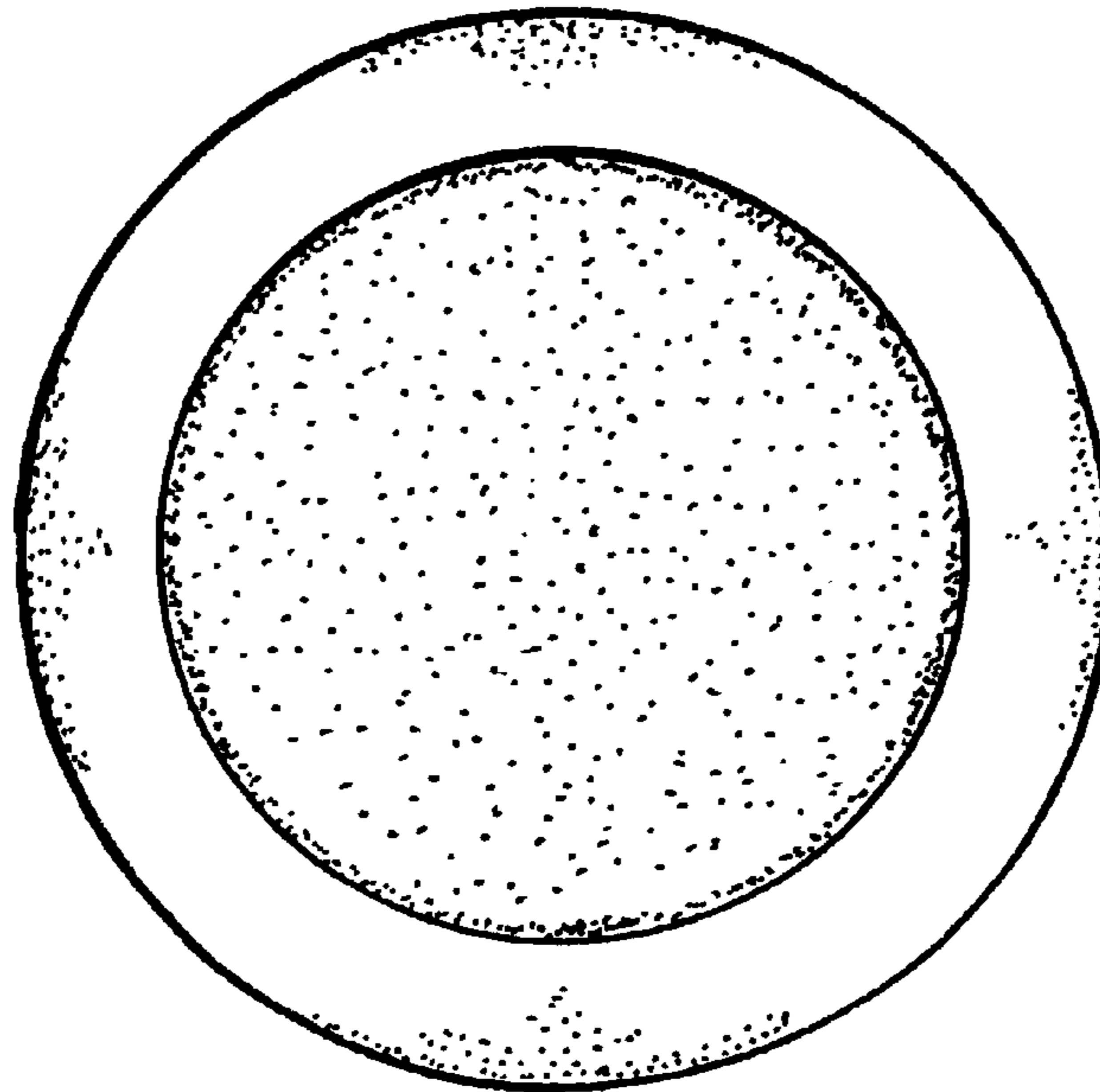


Fig. 7