

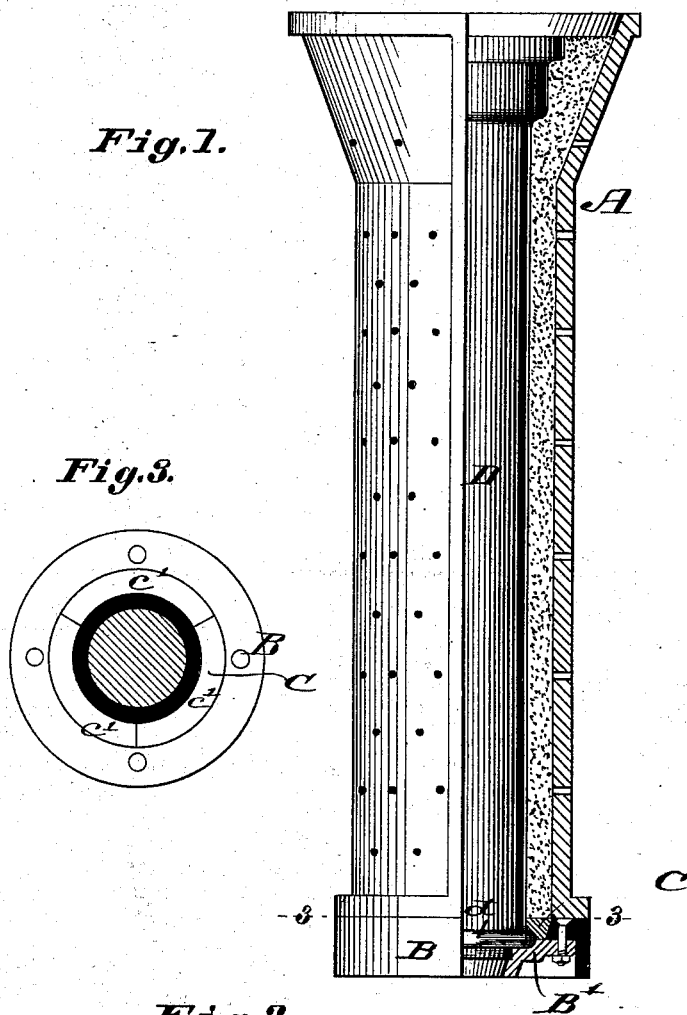
(No Model.)

F. SHICKLE.  
PIPE MOLDING APPARATUS.

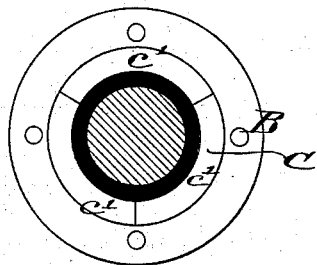
No. 261,962.

Patented Aug. 1, 1882.

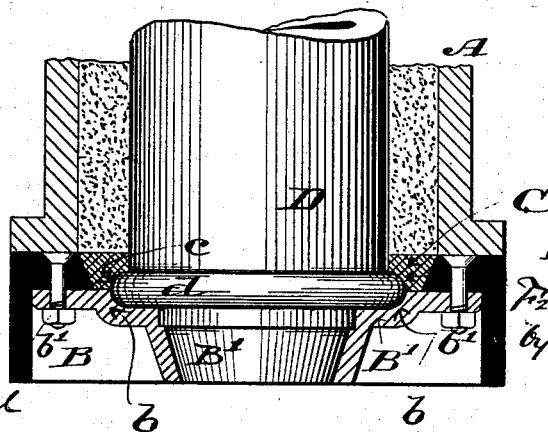
*Fig. 1.*



*Fig. 3.*



*Fig. 2.*



*Attest:*

*Charles P. Hobbs*

*Amos S. Boyd*

*Inventor:*

*Frederick Shickle*  
*by C. D. Moody*  
*att'y*

# UNITED STATES PATENT OFFICE.

FREDERICK SHICKLE, OF ST. LOUIS, MISSOURI.

## PIPE-MOLDING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 261,962, dated August 1, 1882.

Application filed May 26, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, FREDERICK SHICKLE, of St. Louis, Missouri, have made a new and useful Improvement in Pipe-Molding Apparatus, of which the following is a full, clear, and exact description, reference being had to the annexed drawings, making part of this specification, in which—

Figure 1 is a side elevation, half in section, of a pipe-molding flask having the improvement; Fig. 2, a vertical section of the lower end of the flask, and Fig. 3 a horizontal section taken on the line 3 3 of Fig. 1.

The same letters denote the same parts.

The present invention relates to that portion of the flask used in forming the bead upon the pipe.

A represents a pipe-molding flask of the usual kind, saving as modified by the present improvement. B represents the flask-bottom. C represents the bead-ring. The chamber used in casting the bead is formed partly in the bead-ring and partly in the flask-bottom, the bead-ring being shaped out at *c* to form the upper portion of the bead, and the flask-bottom being shaped out at *b* to form the lower

portion of the bead and the bead-ring and flask-bottom being relatively arranged to properly complete the chamber. The pipe D is cast and the bead *d* formed in the usual manner, the metal, in casting, being sustained by the flask-bottom. As in time that portion, B', of the flask-bottom upon which the metal, in being poured into the flask, immediately strikes is liable to wear, it is made detachable from the main portion of the flask-bottom, and when worn it may, by removing the nuts *b' b'*, or whatever fastening is employed to connect the parts B and B', be detached from the main portion of the flask-bottom, and a new part, B', substituted. The bead-ring C, when composed of a material such as cast-iron, is made in sections, *c' c' c'*, two or more, to facilitate its removal from the pipe D.

I claim—

The combination, in the flask A, of the bottom B, having the removable portion B', and the bead-ring C, substantially as described.

FREDERICK SHICKLE.

Witnesses:

C. D. MOODY,  
CHARLES PICKLES.