

(No Model.)

C. A. PERRY.

MOLD FOR MAKING CLAY PIPES, &c.

No. 354,216.

Patented Dec. 14, 1886.

Fig. 1.

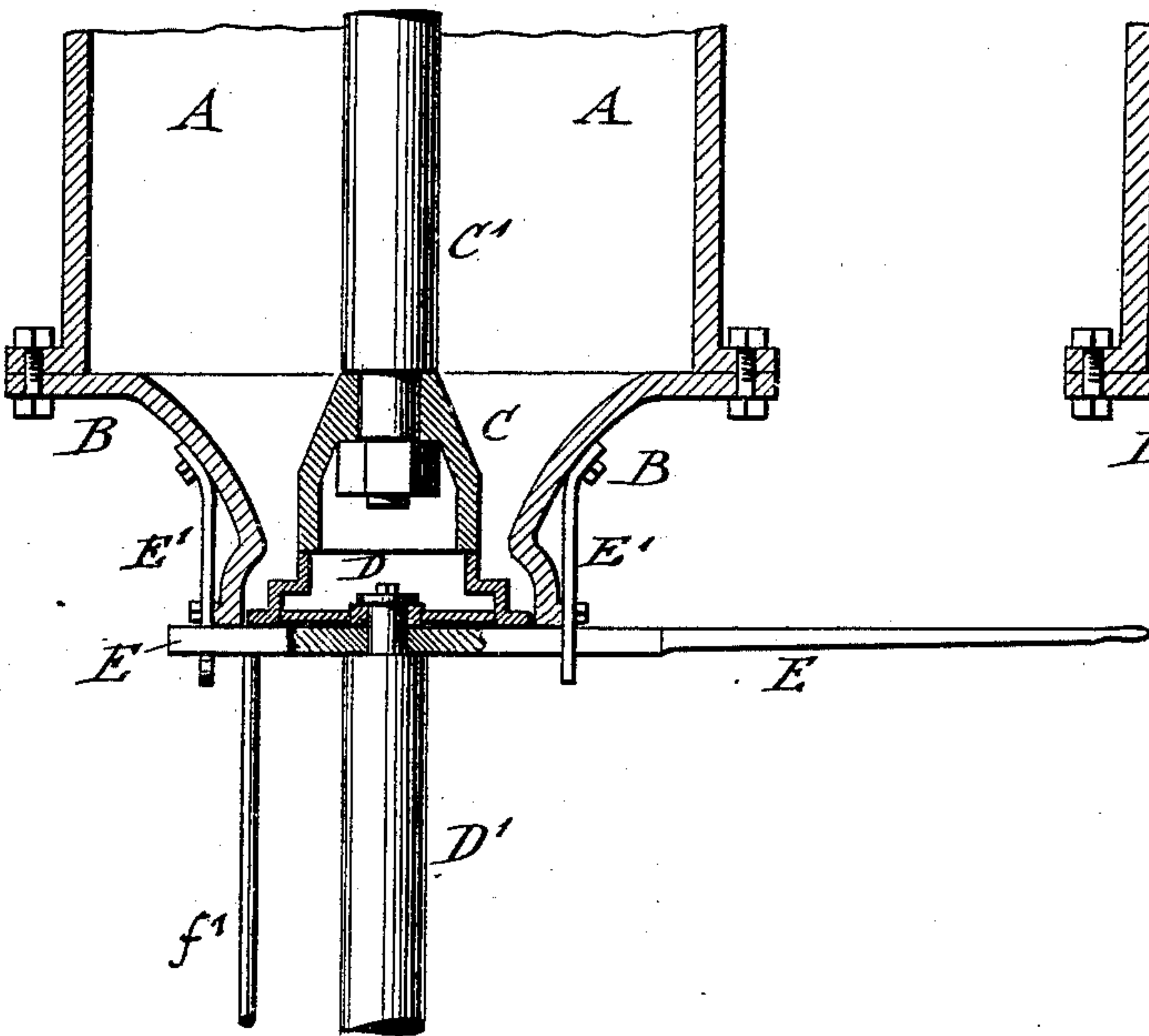


Fig. 2.

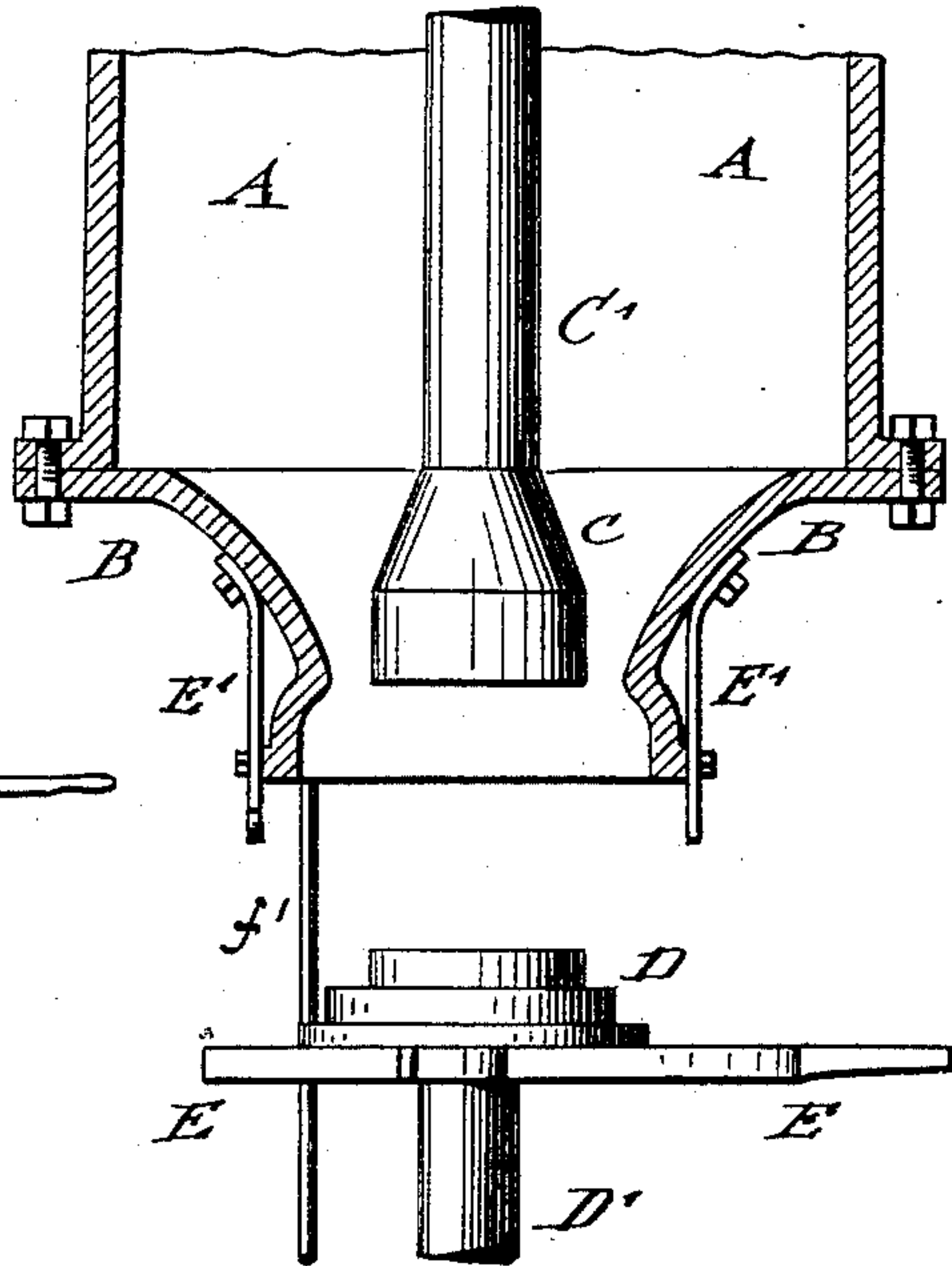


Fig. 4.

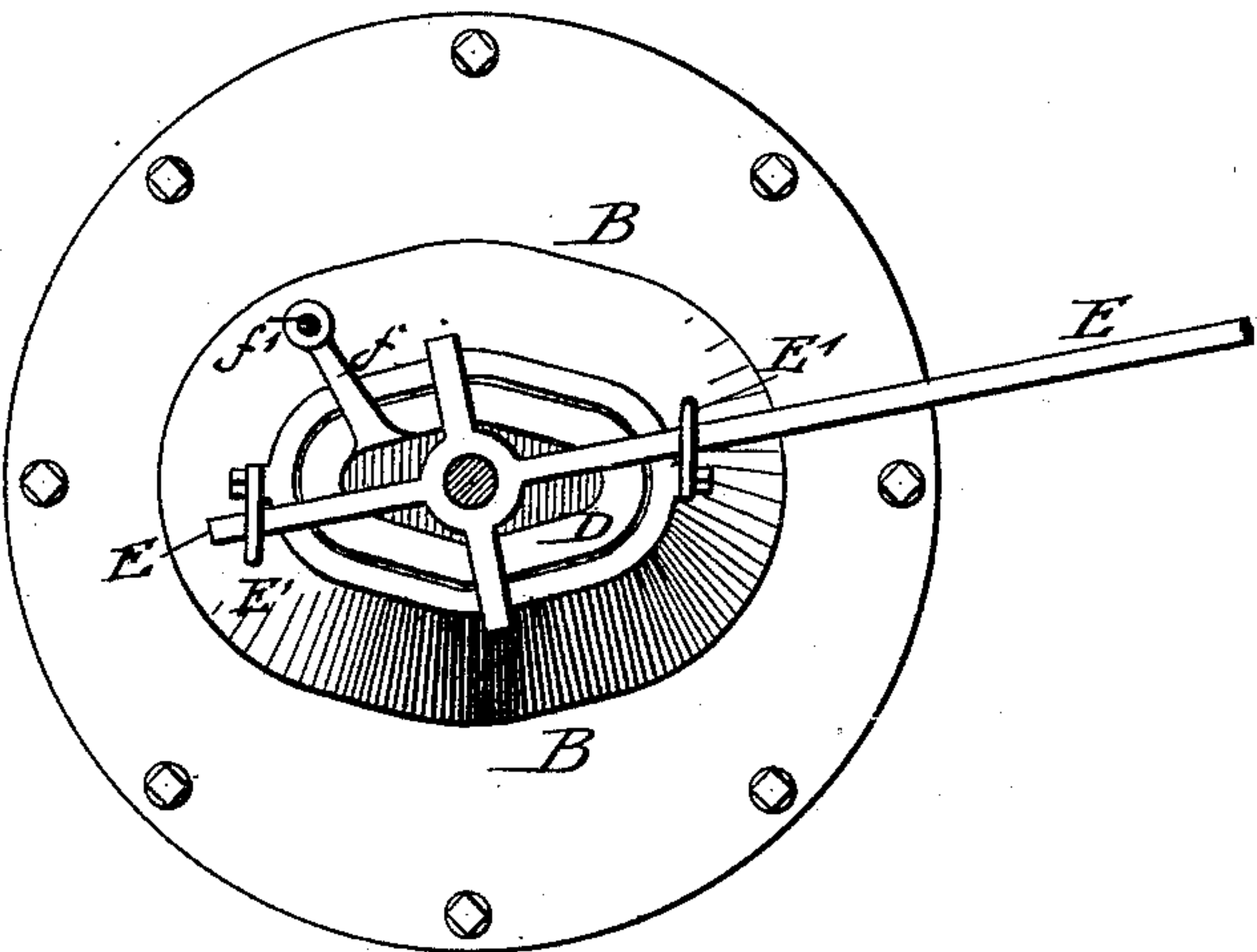
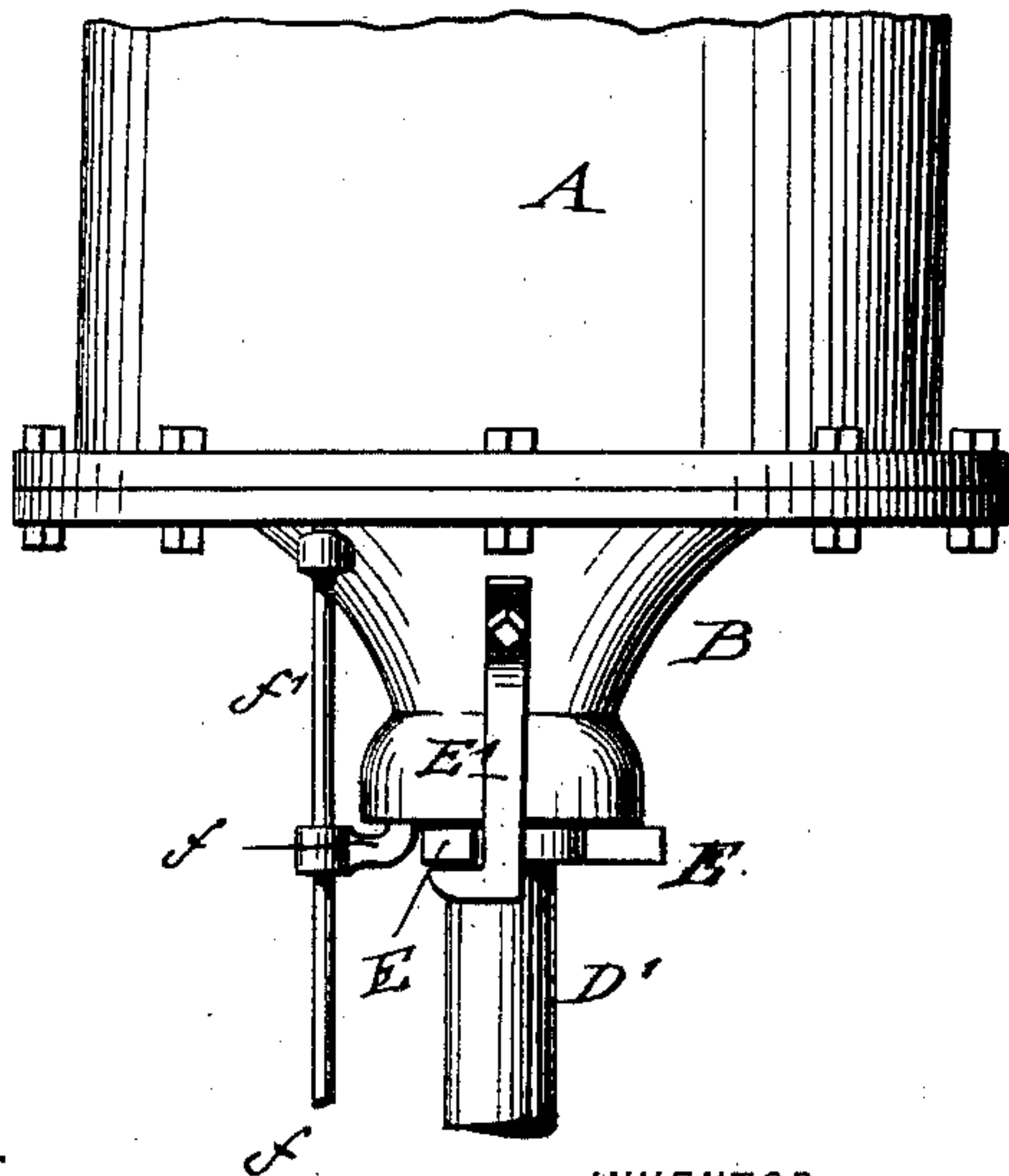


Fig. 3.



WITNESSES:

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MOLD FOR MAKING CLAY PIPES, &c.

SPECIFICATION forming part of Letters Patent No. 354,216, dated December 14, 1886.

Application filed May 1, 1886. Serial No. 200,764. (No model.)

To all whom it may concern:

Be it known that I, CHARLES A. PERRY, of the city, county, and State of New York, have invented certain new and useful Improve-
5 ments in Molds for Making Clay Pipes and other Articles, of which the following is a specification.

This invention relates to an improved mold for making clay pipes, wall-copings, and other
10 articles of oval and other cross-section; and the invention consists of a mold for making clay pipes and other articles which is provided with a base-section and a fixed interior core, a former, an independently-movable locking-
15 lever pivoted to the supporting-rod of the former, a fixed vertical rod attached to the base-section, and a bracket-arm attached to the former and guided on the vertical rod during the up and down movements of the
20 former.

In the accompanying drawings, Figure 1 represents a vertical central section of my improved mold for making clay pipes and other articles, shown in a closed position. Fig. 2
25 represents a vertical central section showing the former lowered. Fig. 3 is a side view of the mold, and Fig. 4 a bottom view of the same.

Similar letters of reference indicate corresponding parts.

The mold consists of the usual cylinder, A, into which the clay is charged and forced down by a plunger. (Not shown in the drawings.) At the lower part of the cylinder A is arranged the base-section B, and centrally to
35 the same the core C, which is supported on a fixed center rod, C'. The former D is supported on the former-rod D', which is vertically reciprocated, so as to open or close the
40 bottom of the mold in the usual manner. The former D serves, in connection with the base-section and core, to form the shoulder at one end of the clay pipe or other article. It is rigidly attached to the upper end of the former-rod D' and accurately fitted to the base-section B and core C.

The parts thus far described have been used heretofore in pipe-molds, and I therefore do not claim the same.

50 My improvements consist in pivoting the

lever E, by which the former D is locked to the base-section B of the mold, to the neck of the former-rod D' immediately below the former D, so as to permit it to be moved independently of the former D. The lever E is
55 made in the form of a cross, with a ring-shaped portion at the intersection of the arms, as shown in Fig. 4, so as to bear at four points on the bottom of the former. The former D is locked to the mold by turning the lever E
60 and bringing it into engagement with two fixed hooks, E', attached to the base-section B, which hooks extend in opposite direction, so as to retain the lever E, as shown in Figs. 1, 3, and 4. To prevent the former D from
65 turning on its axis when it is unlocked by the motion of the lever from the base-section B, the former is guided in its up-and-down motion by a fixed bracket-arm, f, on a fixed vertical rod, f', that is rigidly attached to the
70 base-section B, as shown in Figs. 1 and 3. The arrangement of the independently-movable lever E permits the locking and releasing of the former D without producing the axial turning of the latter, so that pipes of oval or
75 other cross-sections can be made in molds of corresponding cross-sections, in which case the former cannot be turned with the lever in opening or closing the mold, as in the molds heretofore in use. 80

The independent movement of the locking-lever and the vertical guiding of the former form the novel features of my improved mold, by which the same is adapted to mold pipes of any cross-section. 85

Molds of this construction are also adapted for making wall-copings and other articles, in which case two copings are made at the same time in the form of a pipe of corresponding cross-section, said copings being connected at
90 their abutting ends, formed with shoulders at one end in the same manner as other pipe-sections, and separated after burning at their abutting edges in the well-known manner.

Having thus described my invention, I claim 95 as new and desire to secure by Letters Patent—

1. The combination, in a mold for clay pipes, of a base-section and a core corresponding to the cross-section of the pipe, a former fitted to the base section and core, an inde- 100

pendently-movable locking-lever, means to lock the lever to the base-section, a fixed vertical guide-rod attached to the base-section, and a bracket-arm attached to the former and
5 guided on the fixed rod of the base-section, substantially as set forth.

2. The combination, in a mold for making clay pipes, of a base-section having fixed locking-hooks, an interior core, a former fitted to the base-section and core, a rod for supporting the former, and an axially-movable

locking-lever pivoted below the base-section to the former-rod, and adapted to lock or release the former without turning the same, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

CHAS. A. PERRY.

Witnesses:

PAUL GOEPEL,
SIDNEY MANN.