T. MADELEY.

Improvement in Molds for Sewer-Pipe.

No. 114,164. Patented April 25, 1871.

Fig. 1

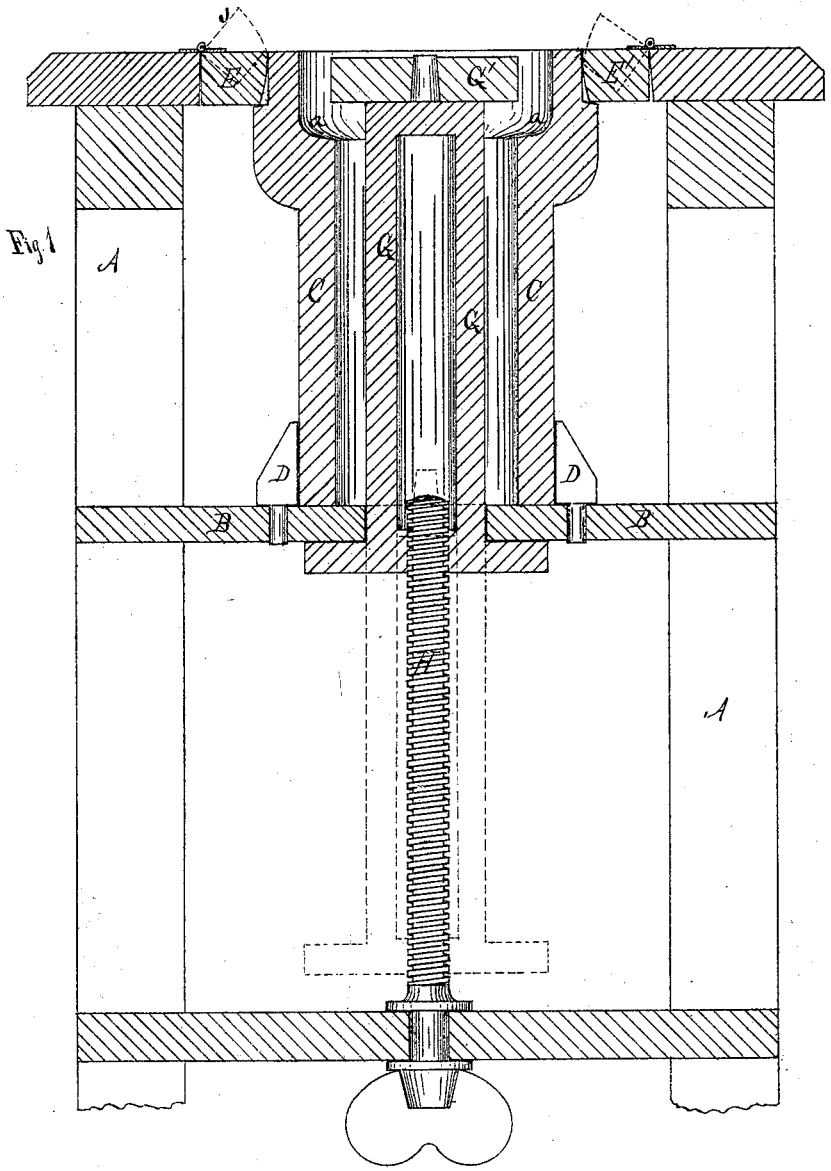
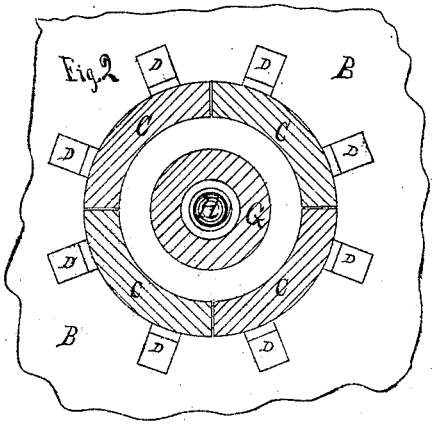


Fig. 2



Witnesses

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THOMAS MADELEY, OF ROCHESTER, NEW YORK.

Letters Patent No. 114,164, dated April 25, 1871.

IMPROVEMENT IN MOLDS FOR SEWER-PIPES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, THOMAS MADELEY, of the city of Rochester, county of Monroe and State of New York, have invented a certain new and useful Improvement in Molds for Making Composition Pipe for sewers and other uses, of which the following is a specification.

Nature of the Invention.

This invention consists of a sectional mold, held at the top by folding leaves and at the bottom by removable pins, and having a core which is drawn downward by a screw, the whole as hereinafter described.

General Description.

In the drawing—

Figure 1 is a vertical section.

Figure 2, a horizontal section.

A represents a frame having a table, B.

On this table rests the mold, which consists of two or more sections, C C′, which, when fitted together, are in the shape of the pipe to be formed.

The lower end is simply a straight cylinder, while the upper end is made flaring or enlarged, as shown at *a*, to form the coupling-socket of the next section of pipe.

The lower ends of the sections of the mold are held in place on table B by loose pins, D D′, which set in holes around the circle, and are removable at pleasure.

The upper end is held by two leaves or lids, E E′, hinged at the outside, which turn down and encircle the mold.

This arrangement of the folding leaves and the removable pins, combined with the sectional mold, forms the first feature of my invention.

When the pipe has been formed and the core withdrawn the leaves are opened and the pins removed, and the sections of the mold come apart, thus exposing the pipe entire.

In this manner great expedition and facility of action are insured, and there is no injury to the pipe in removal.

Inside the mold is situated the core G, which is simply a cylinder extending the length of the straight portion of the pipe.

After the mold is filled with the composition to the height of this core a block, G′, of greater diameter, is placed on top the core, which forms the core to the enlargement or coupling-head *a*. The composition is then filled around this block, and the pipe is then complete. To remove the core, the upper part is then taken off and the main core drawn down.

To accomplish this latter action a screw, H, is secured, to turn stationary below, and its end enters the lower end of the core and engages therewith. As the screw is turned the core is drawn downward until it is entirely free of the mold, when the latter may be removed, and the pipe is free, as above described.

This arrangement of the core and screw forms the second feature of my invention. By this means the core is readily removed, and without any injury at all to the pipe which is being formed. It can be turned down as gradually as desired, and with the utmost precision—a necessary condition in the formation of pipes—without breaks or irregularity.

Claims.

What I claim, and desire to secure by Letters Patent, is—

1. In combination with a pipe-mold made in two or more sections, the hinged and folding leaves E E′ at the top and the removable pins D D′ at the bottom, as and for the purpose specified.

2. The arrangement with the sectional mold of the folding leaves E E′, removable pins D D′, and core G, with screw H, as herein described.

THOMAS MADELEY.

Witnesses:

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