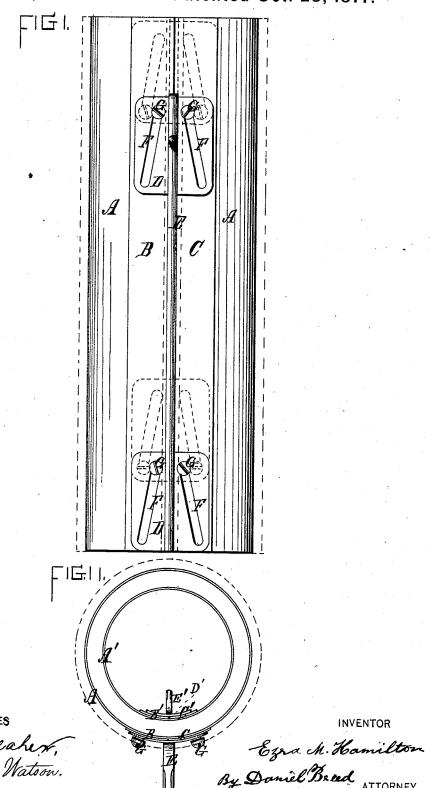
E. M. HAMILTON. Molds for Making Pipes from Mortar.

No. 196,295.

Patented Oct. 23, 1877.



UNITED STATES PATENT OFFICE.

EZRA M. HAMILTON, OF LOS ANGELES, CALIFORNIA.

IMPROVEMENT IN MOLDS FOR MAKING PIPES FROM MORTAR.

Specification forming part of Letters Patent No. 196,295, dated October 23, 1877; application filed June 13, 1877.

To all whom it may concern:

Be it known that I, EZRA M. HAMILTON, of Los Angeles, Los Angeles county, in the State of California, have invented an Improvement in Molds for Making Pipes from Mortar; and I hereby declare the following to be a full and exact description thereof, reference being had to the accompanying drawings, forming part of this specification.

My improvement in molds for drain-pipes consists of the combination of certain expanding and contracting clamps with a sheet-metal case and core, which will be fully understood by the following description.

by the following description.

In the accompanying drawings, Figure 1 is a side view of my pipe-mold, and Fig. 2 an

end view of the same.

A plate of sheet metal being rolled to form a hollow cylinder, with the edges of the metal abutting, as shown at A in the drawings, two strips, B and C, of sheet metal are attached to the cylinder, as seen in Fig. 2, the strip C overlapping the joint, and abutting against the strip B when the joint of the cylinder is closed. Outside of these strips B and C are two clamps or slides, D, connected by a rod, E, and having oblique slots F, working on the studs G. When these clamps or slides are pushed down, the cylinder A is contracted and the seam therein closed by abutting of the edges; but when the sliding clamps are raised, the cylinder or tube is expanded by pressing open the seam, as shown in dotted lines in Fig. 2.

Having molded a pipe from mortar (say of cement) inside of this tubular mold, which may be placed in sand, the clamping sides are raised, thus expanding the mold away from the mortar pipe, and then this outer mold may be entirely withdrawn from the sand, which gently falls back against the molded pipe, and thus supports the same until the mortar has time to set, and this setting is facilitated by the drying action of the sand.

By means of this mold I am able to work very wet mortar, and thus make better pipes.

In Fig. 2 is represented a tubular core with all the parts reversed, and yet corresponding to the outer mold already described. In this case the slides must be on the inside of the tubular core, and this needs no further description.

Having described my invention, I claim— The mold for making cement pipes, consisting of the cylinder A and sliding clamps D D, connected together by a rod, E, and having oblique slots F F, which receive the studs or screws G G from the cylinder, substantially as and for the purpose set forth.

In testimony that I claim the above as my invention I hereunto subscribe my name in

the presence of two witnesses.

EZRA M. HAMILTON.

Witnesses:

B. McLellan, H. W. Potts.