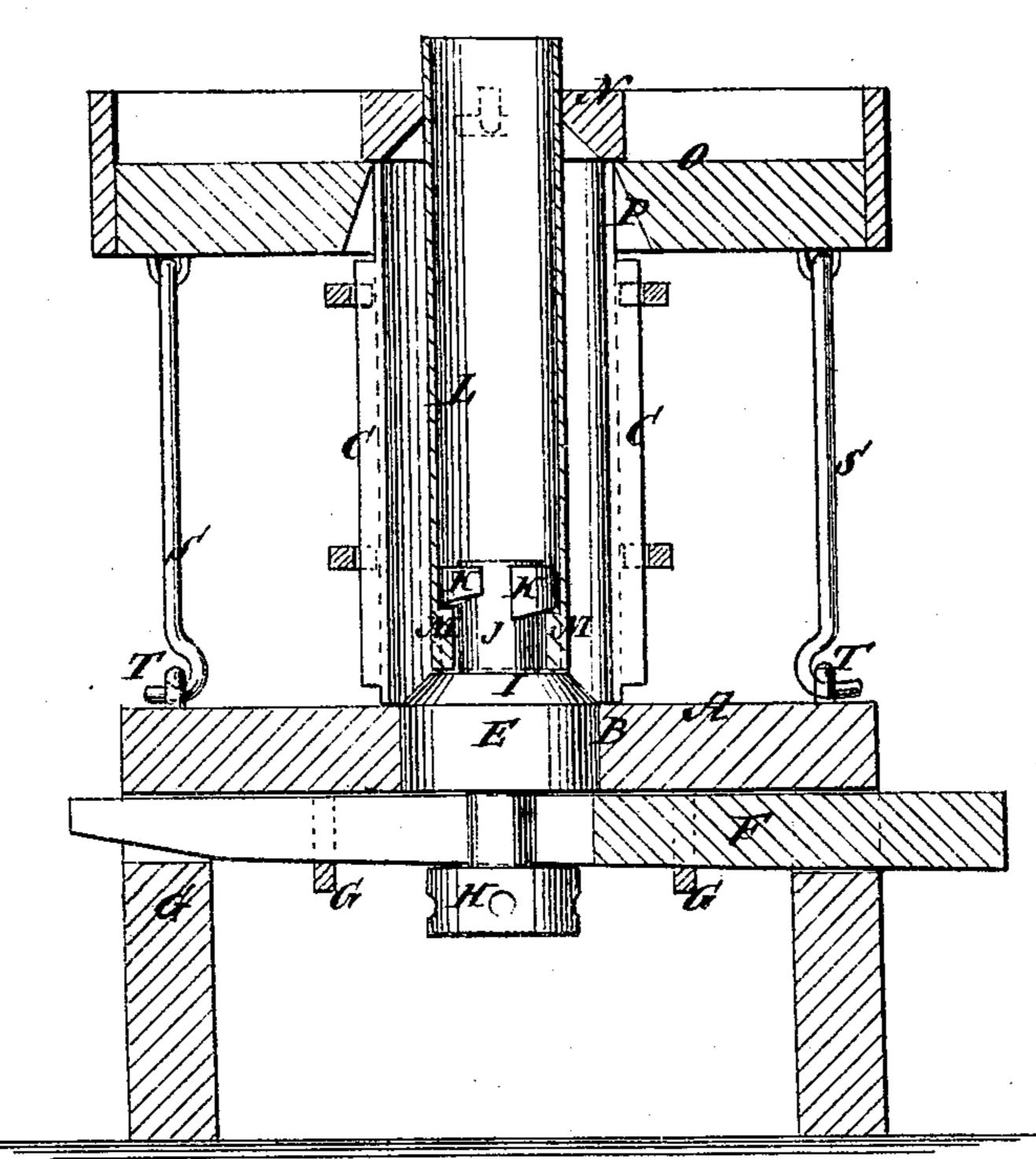
I. P. MERWIN.

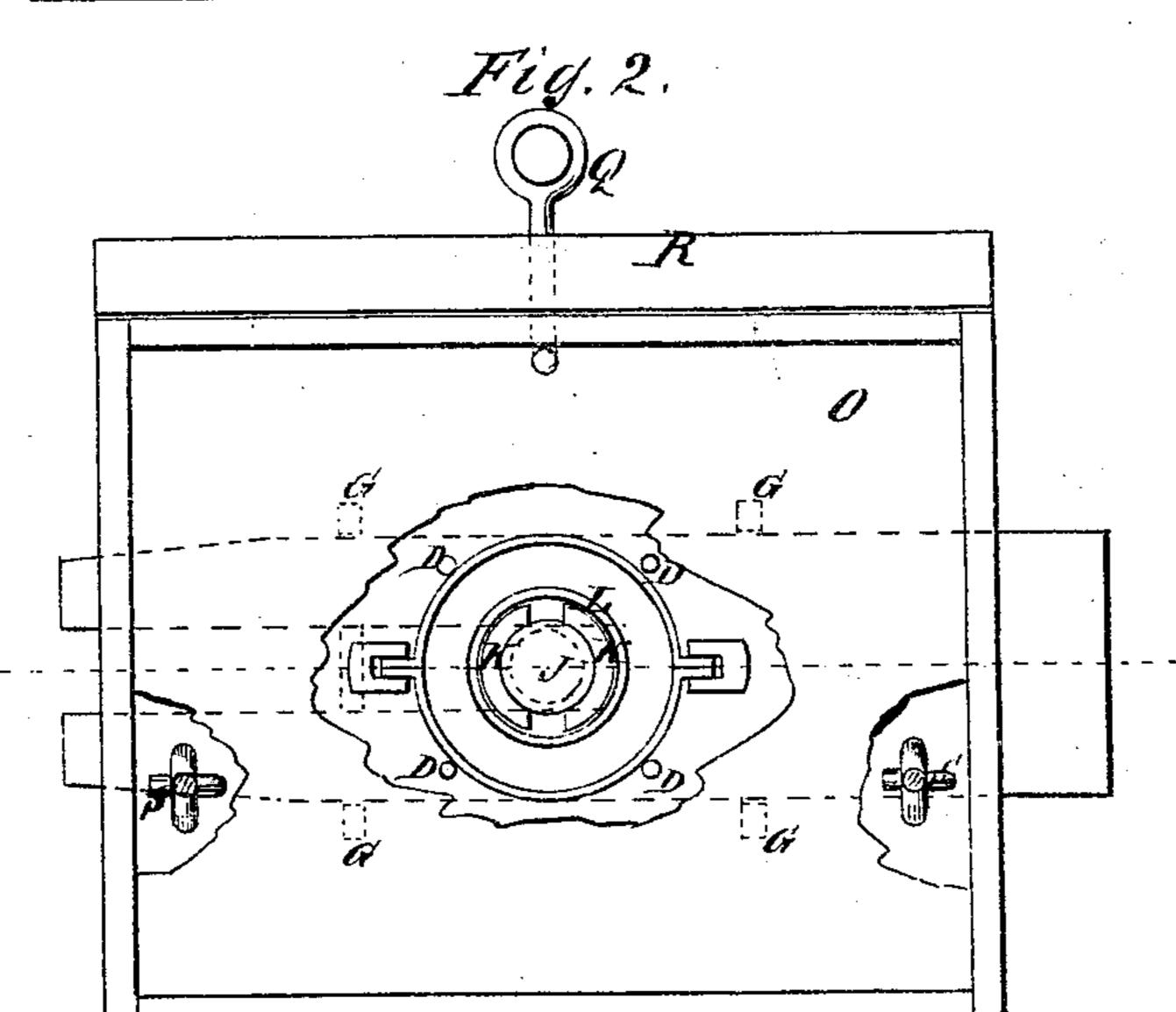
Tile-Machines.

No.152,301.

Patented June 23, 1874.

Fig. 1.





WITNESSES:

Elegenek.

INVENTOR: Ora P. Merevin

BY

ATTORNEYS.

UNITED STATES PATENT OFFICE.

IRA P. MERWIN, OF SYRACUSE, NEW YORK.

IMPROVEMENT IN TILE-MACHINES.

Specification forming part of Letters Patent No. 152,301, dated June 23, 1874; application filed March 28, 1874.

To all whom it may concern:

Be it known that I, IRA P. MERWIN, of Syracuse, in the county of Onondaga and State of New York, have invented a new and Improved Drain-Pipe-Molding Machine, of which

the following is a specification:

My invention relates to that class of machines in which the pipe is mounted on a vertical core in a vertical case supported on a base-plate, so that the core can be removed from the molded pipe, and the latter removed in the mold-case to dry; and my invention consists of a corestandard or core-base for the support of the core, detachably connected to the latter by a bayonet-fastening, to allow of connecting and disconnecting them readily; also, a novel mode of fastening the core-standard in the machine.

Figure 1 is a sectional elevation of my improved machine, taken on the line x x of Fig. 2; and Fig. 2 is a plan view with some parts

of the mortar-table broken out.

Similar letters of reference indicate corre-

sponding parts.

A represents the base-plate or platform of the machine, in which is a hole at B, a little smaller than the diameter of the pipe to be formed, on which plate the mold-case C, made in two parts, detachably connected together, rests, being centered with the hole B by pins D projecting from the upper surface of the platform. E is the core-standard, which fits snugly in the hole B, where it is firmly but detachably secured by the crotchet-wedge F passing close under the platform in supports G, and between the head E and the base of the core-standard. Directly above the basepiece A the core-standard is beveled at I to mold the flaring shape required for the lower end of the pipe for coupling with the conical end of the next section, and above this bevel is a short extension, J, having the edges or inclined lugs K for interlocking with the lower end of a tubular core, L, by the lugs M, in a kind of bayonet-fastening, for quickly connecting and disconnecting them.

By making the core and core-standard detachable, convenience of handling is facilitated in various ways, since the core is thus practically reduced in length, and it can be removed much easier above than below the mold. To remove it below would require a deep pit or a considerable elevation of the ap-

paratus, whereas it is highly desirable to have

it on the ground.

This core extends up through the pipe to receive a heading-cap, N, such as used in other molding-machines for making the conical form on one end of the pipe to fit in the socket formed in the other by the bevel I of the core-standard. The mold-case C rises up in the conical hole P in said board flush with the upper surface to meet the header; and it also serves to some extent for a support for the board, which is also supported detachably by the hook-clamp Q coming through the back part R of the frame, and hooking through the side piece of the board; and it is also supported by the rods S, jointed to its under side and hooking into staples T in the base A. The header N is only put on the core after the mold has been filled.

When a pipe has been molded in the machine, the same being in the condition represented in Fig. 1, the wedge F is removed, the core-standard is turned by a rod or lever introduced in its head H, and disconnected from the core, giving a smoother finish to the socket-joint of the pipe by such turning, and is then drawn out through the base A. The header N is then removed and the core forced out through the bottom by pressure applied to the top in any approved way. The mixing-board is then removed, and the mold-case containing the molded pipe taken away to retain the pipe until hard enough to be removed, and another mold is set up as before.

Having thus described my invention, I claim as new and desire to secure by Letters Pat-

ent-

1. In combination with the core-standard, having head H and base E, the crotched wedgebar F, arranged to slide in suitable supports or on the under side of the platform A, as shown and described, for the purpose specified.

2. The combination with the flask of the core L, having the base-lugs M, the core-standard, having lugs K, the same being thus adapted for connection and disconnection, as and for the purpose specified.

IRA P. MERWIN.

Witnesses:

E. A. BARNES, EDWIN H. MAYNARD.