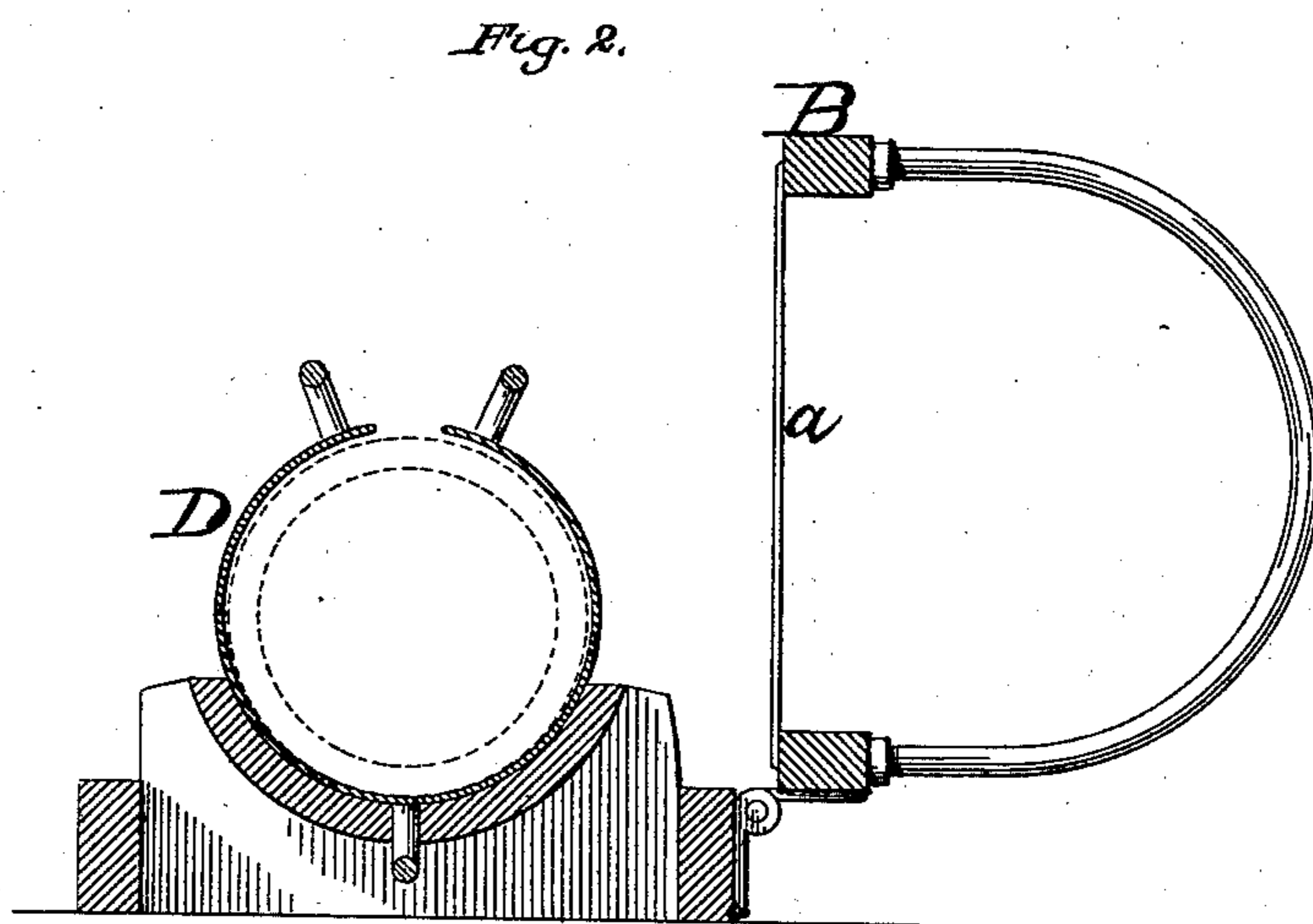
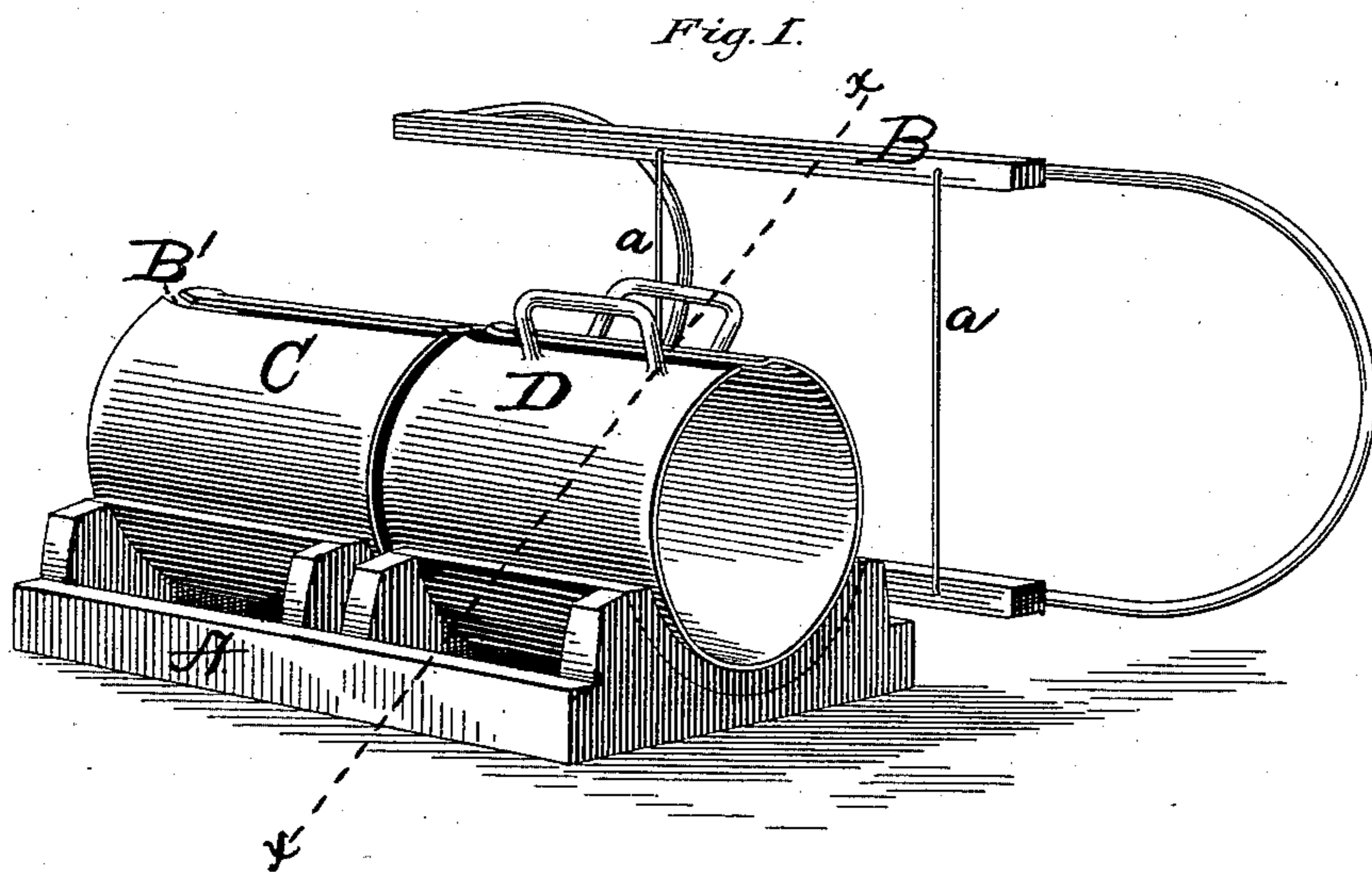


P. OZMANN.  
Attachment to Tile-Machine.

No. 221,934.

Patented Nov. 25, 1879.



*Attest:*

*C. Clarence Poole  
J. H. Clark.*

*Inventor:*

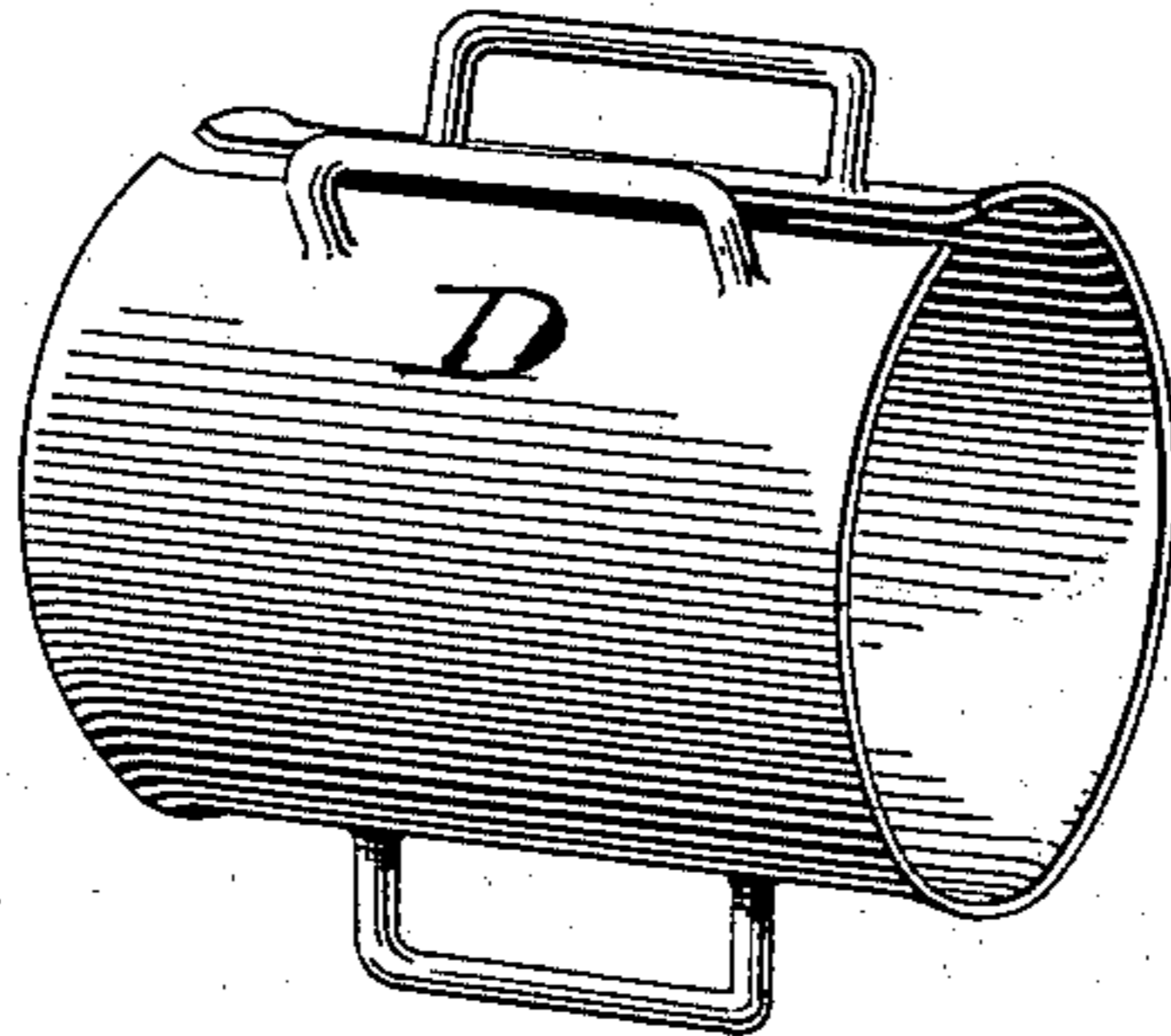
*Philipp Ozmann  
by Haylman & Kane  
Atty's.*

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Attachment to Tile-Machine.

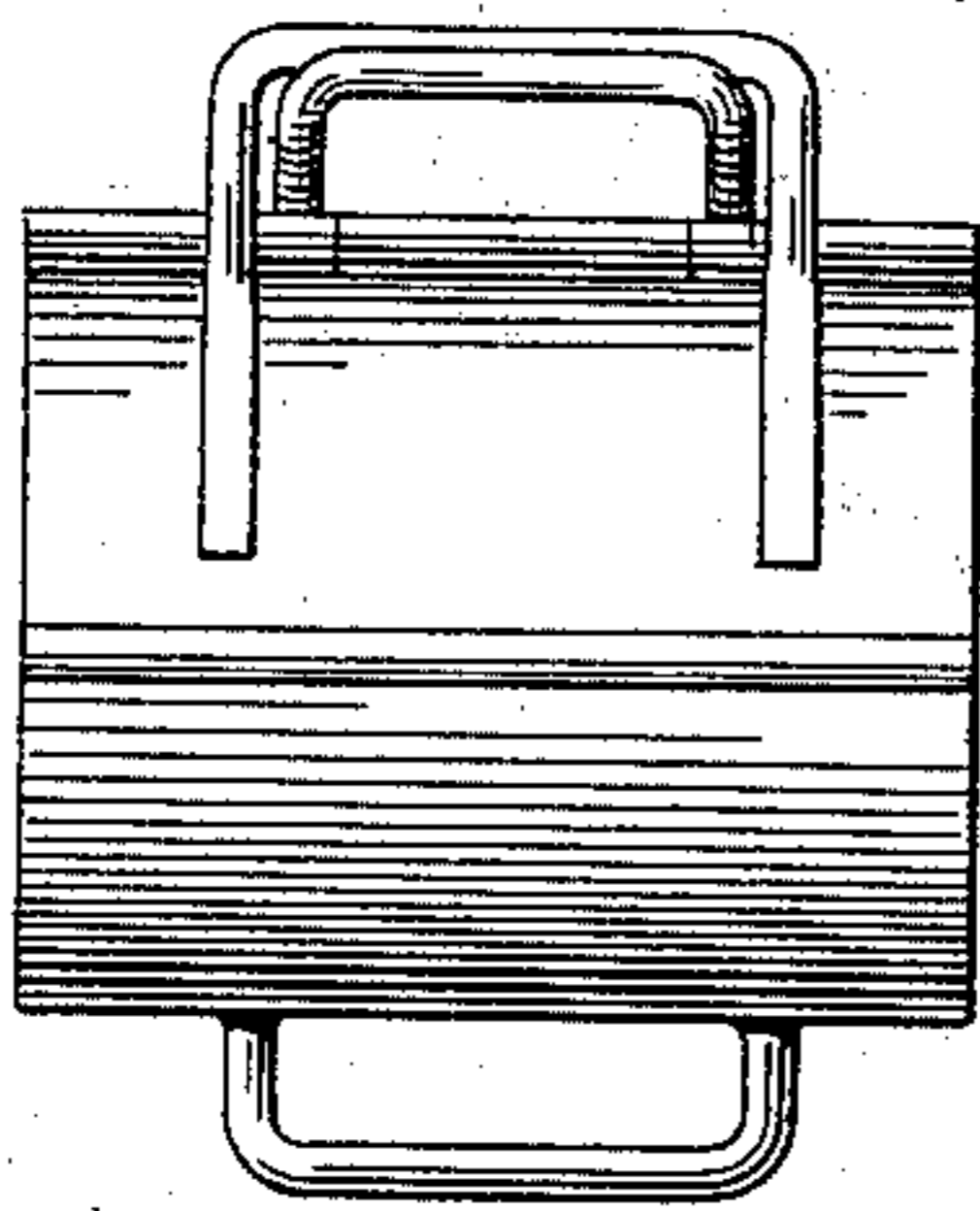
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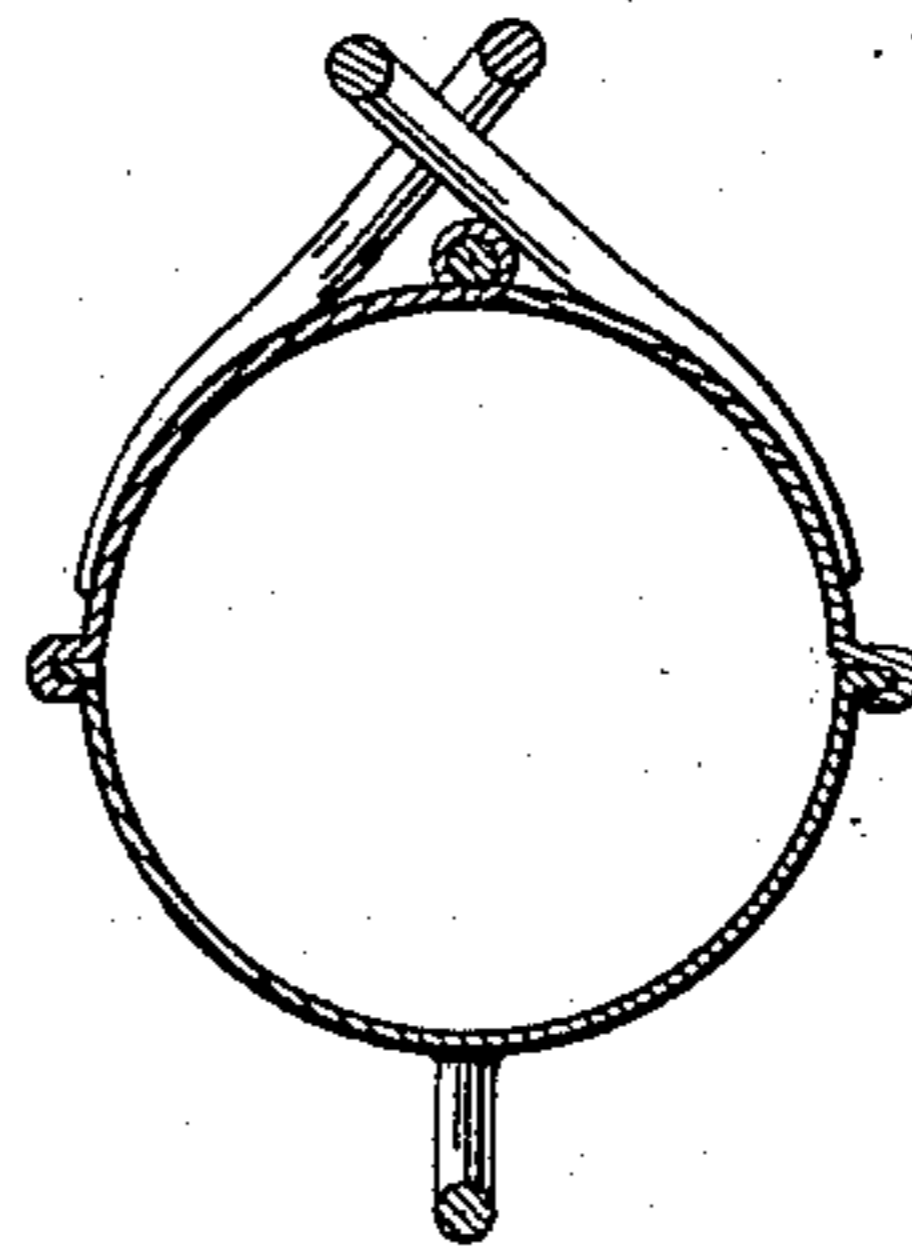
*Fig. 3.*



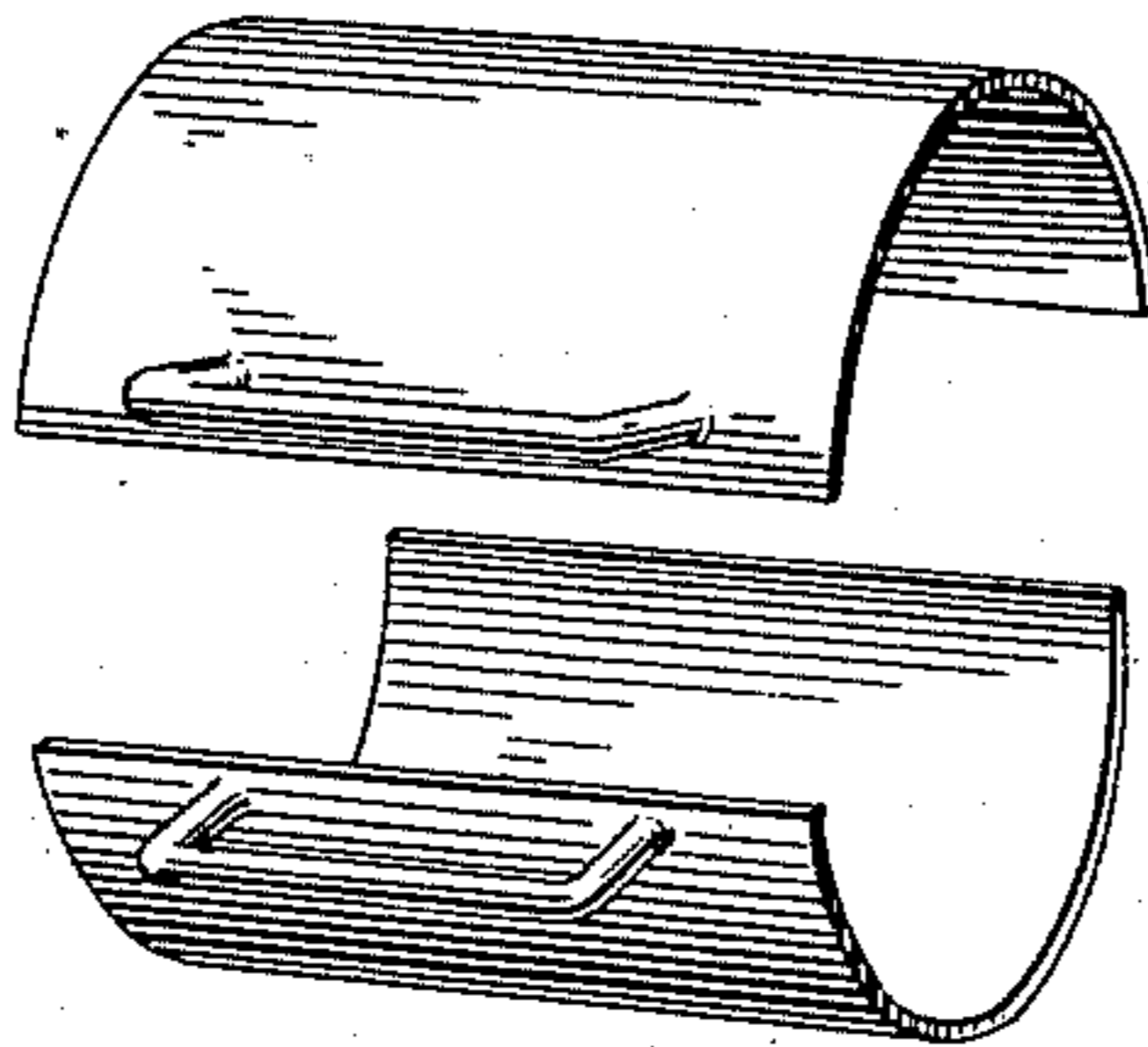
*Fig. 4.*



*Fig. 5.*



*Fig. 6.*



*Attest:*

*Clarence Poole  
J. H. Clark.*

*Inventor:*

*Philipp Ozmann,  
by Heylman & Kane  
Attys*

# UNITED STATES PATENT OFFICE

PHILIPP OZMANN, OF BUCYRUS, OHIO, ASSIGNOR OF ONE-HALF OF HIS RIGHT TO F. E. FREY, D. J. SHECKLER, AND WILLIAM HOOVER, OF SAME PLACE.

## IMPROVEMENT IN ATTACHMENTS TO TILE-MACHINES.

Specification forming part of Letters Patent No. **221,931**, dated November 25, 1879; application filed September 17, 1879.

*To all whom it may concern:*

Be it known that I, PHILIPP OZMANN, of Bucyrus, in the county of Crawford and State of Ohio, have invented a new and valuable Improvement in Attachments to a Tile-Machine and Means for Handling Tiles; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a perspective view of my attachments for a tile-machine. Fig. 2 is a transverse sectional view taken through the line *xx* of Fig. 1. Fig. 3 is a perspective view of the portable receptacle or clamp. Figs. 4, 5, and 6 are modifications of the portable receptacle or clamp.

The object of this invention is to provide a more perfect guide and support for tiles when issuing from the machine, and to afford safe means and convenient receptacle for handling them before they have been subjected to the hardening process.

Experience has demonstrated that tiles, especially such as are of large diameter, are likely to crack while drying, after having been handled while soft, the fissures or cracks appearing in those parts where the pressure of the hands has been applied in carrying them from the machine.

This invention is designed to obviate these difficulties by having the pressure distributed uniformly over the whole tile, and to preserve it in perfect shape, or to correct any irregularities of shape or structure arising from cutting or otherwise in the course of manufacturing. It is also designed to greatly facilitate the transportation of the tiles from the machine.

In the accompanying drawings, showing a practical way of carrying out my invention, the letter A represents a table or frame, which is placed before the die of a tile-machine of any pattern, and is generally supported on rollers or rockers, in order that a free action may be had while the slab of clay passes over it, and during the process of cutting or trim-

ming by means of the wires *a* on the hinged frame B.

The letter C indicates a slit cylinder, acting as a guide for the cylindrical slab of clay as it issues from the machine. This cylinder C is made of sheet metal, or from any other suitable material possessing sufficient strength and elasticity. The form is of the exact shape and size, or a little larger, of the tile to be made. The top is left open, as at B', allowing it to spring, in order to more perfectly form the tile, and to allow the ready application of lubrications. Self-feeding oilways may be placed on the front part of the guide-cylinder. By the use of this guide the tile is prevented from collapsing if very soft, and it also directs the tile in perfect shape into the receptacle or clamp D. This clamp is placed in direct range with the guide-cylinder C, and is constructed similar to it. It is a cylindrical form of sheet metal or other suitable material, the inside of which fits around the clay formed by the die of the machine, the clay being forced into it through the guide C. It is substantially of the same length as the tile to be cut, the wires of the cutting-frame passing down over each end of it for that purpose. It is also left open on top, substantially as shown in Figs. 1 and 3, and handles or their equivalents are provided on each side of the opening; also, one handle or its equivalent is fixed on the bottom, and this latter fits in between two cross-pieces in the frame A, substantially as shown in Fig. 2. This bottom handle prevents the cylinder-clamp D from being displaced as the clay is forced through it. After the clay is forced into the clamp, the cutting-frame B is depressed or raised as its position may require, the wires cutting the clay and leaving the tile inside of the portable clamp D. The handles on top are now grasped by the hand or machinery.

It will be seen that, in lifting, the clamp binds the tile firmly and securely, and the whole is raised from its position and its place supplied by another clamp, into which the clay enters, while the other is borne to the drying kiln or shed. While depositing the tile the

clamp is tipped on end, being held together by the handles. The handles being released, the clamp springs open, and is removed from the tile, leaving it in perfect shape without bruises or other blemish.

The clamp or receptacle is capable of several modifications, such as constructing it in two or more parts, hinging the parts, and crossing the handles, substantially as shown in Figs. 4, 5, and 6 of the drawings.

What I claim as my invention is—

1. In combination with a tile-machine, a slitted guide for conducting or guiding a slab of clay from the machine, substantially in the manner as described.

2. In a tile-machine, the combination of a guide and a portable receptacle or clamp, substantially as described.

3. A stationary and elastic guide, in combination with a tile-machine.

4. A portable and elastic receptacle or clamp having longitudinal handles arranged on opposite sides of the slit in the receptacle, substantially as and for the purpose set forth.

5. A portable cylindrical receptacle or clamp having on its bottom a handle, or its equivalent, to prevent the clamp from being displaced while the clay is forced through it.

6. The combination, with a frame or table of a tile-machine having a hinged frame provided with cutters, of a stationary and elastic guide and a portable and elastic receptacle or clamp, substantially as described.

In testimony whereof I have hereunto subscribed my name.

PHILIPP OZMANN.

Witnesses:

JOHN SCHOTT,

ALEXANDER B. HENDERSON.