

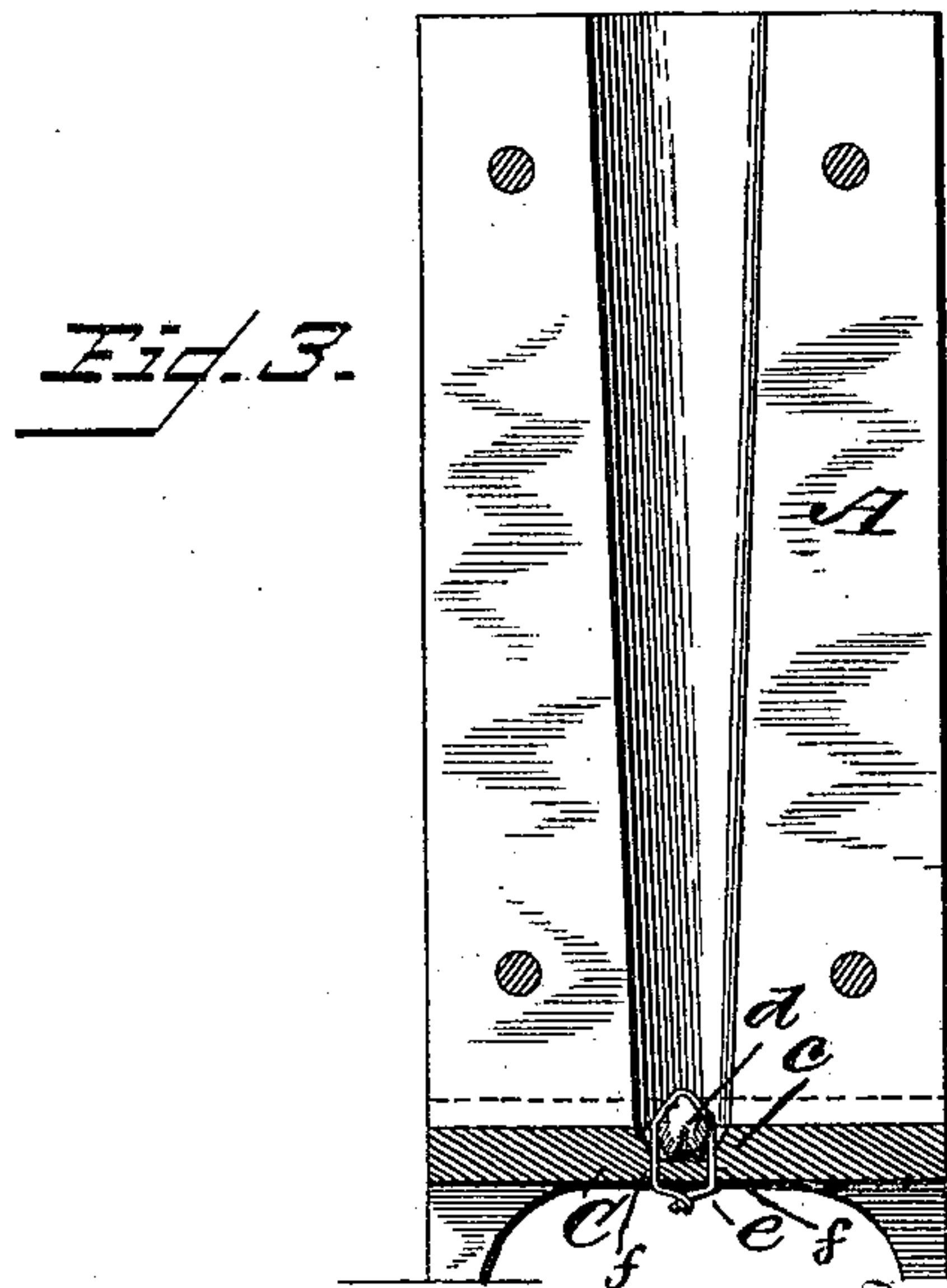
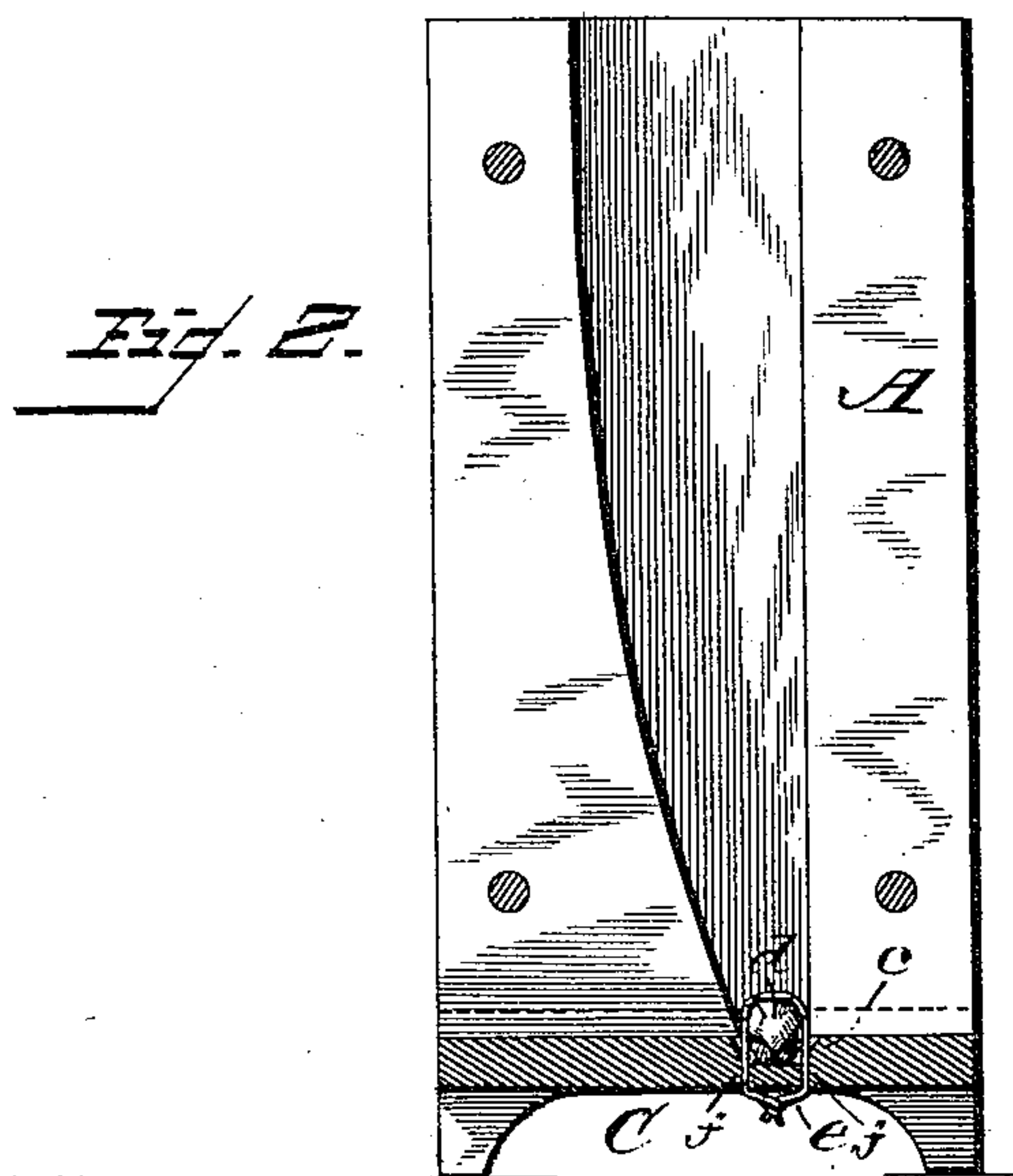
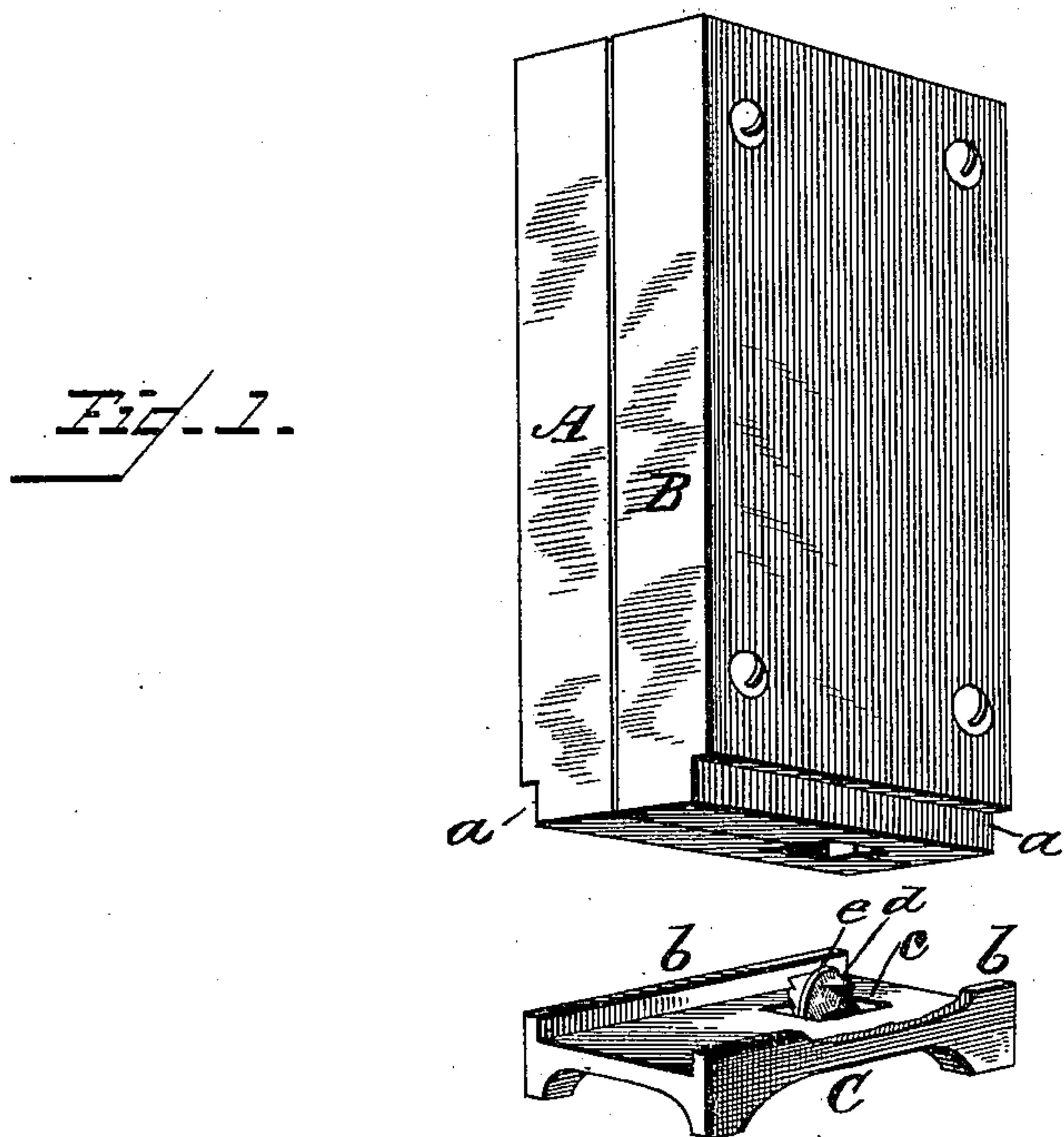
(No Model.)

T. A. JACKSON.

MOLD FOR CASTING DIAMOND TOOLS.

No. 356,132.

Patented Jan. 18, 1887.



Witnesses
Wm. S. Siden.
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UNITED STATES PATENT OFFICE.

THADDEUS A. JACKSON, OF NEW YORK, N. Y.

MOLD FOR CASTING DIAMOND-TOOLS.

SPECIFICATION forming part of Letters Patent No. 356,132, dated January 18, 1887.

Application filed September 3, 1886. Serial No. 212,609. (No model.)

To all whom it may concern:

Be it known that I, THADDEUS A. JACKSON, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Molds for Casting Diamond-Tools; and I do hereby declare that the following is a full, clear, and exact description 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 perspective view of my improved mold, showing the two side sections connected together and the end section removed therefrom. Fig. 2 is a vertical section taken centrally through the complete mold, the same being adapted for forming lathe-tools; and Fig. 3, a similar view of a mold adapted for forming hand-tools.

The present invention has for its object to provide a simple, effective, and practical mold for casting and securing the diamonds in lathe, hand, or other tools; and it consists in the details of construction, substantially as shown in the drawings, and hereinafter described and claimed.

The mold is composed of three sections, A B in the accompanying drawings representing the two side sections, and C the end section, the two side sections being held together by screws or other well-known fastenings, and are formed upon one end with rabbeted edges *a*, in which fit flanges *b* on the mold-section C. This section C has a mortise, *c*, to form a seat for the carbon or diamond, as shown at *d*, and is held therein by a wire loop, *e*, as shown, the matrix of the mold being of a form to correspond with that of the tool to be cast.

I use a piece of wire extending around the carbon or diamond and passing through perforations *f* in the end section, C, and the extremities of said wire are twisted together, thereby forming a wire-loop fastening, the ends of which may be broken off after the tool has been cast and the diamond secured thereto so that a portion of the latter will project beyond the tool.

These diamond-tools are of the kind in ordinary use, and are employed for turning off and truing emery-wheels, grindstones, granite rollers, and for like purposes.

Having now fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination, with a mold for diamond-tools, having a recess for the body portion, of a wire loop located at the end of the said recess for holding the diamond in position during the casting operation, substantially as set forth.

2. In a mold for casting or forming diamond-tools, the combination, with two side sections, of a detachable end section provided with a mortised seat and perforations through it and means for holding said diamond to the seat, which consist of a wire extending around the same, passed through the perforations, and having its extremities twisted together, substantially as and for the purpose specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

THADDEUS A. JACKSON.

Witnesses:

JAMES F. C. BLACKHURST,
HARRY CLIFFORD, Jr.