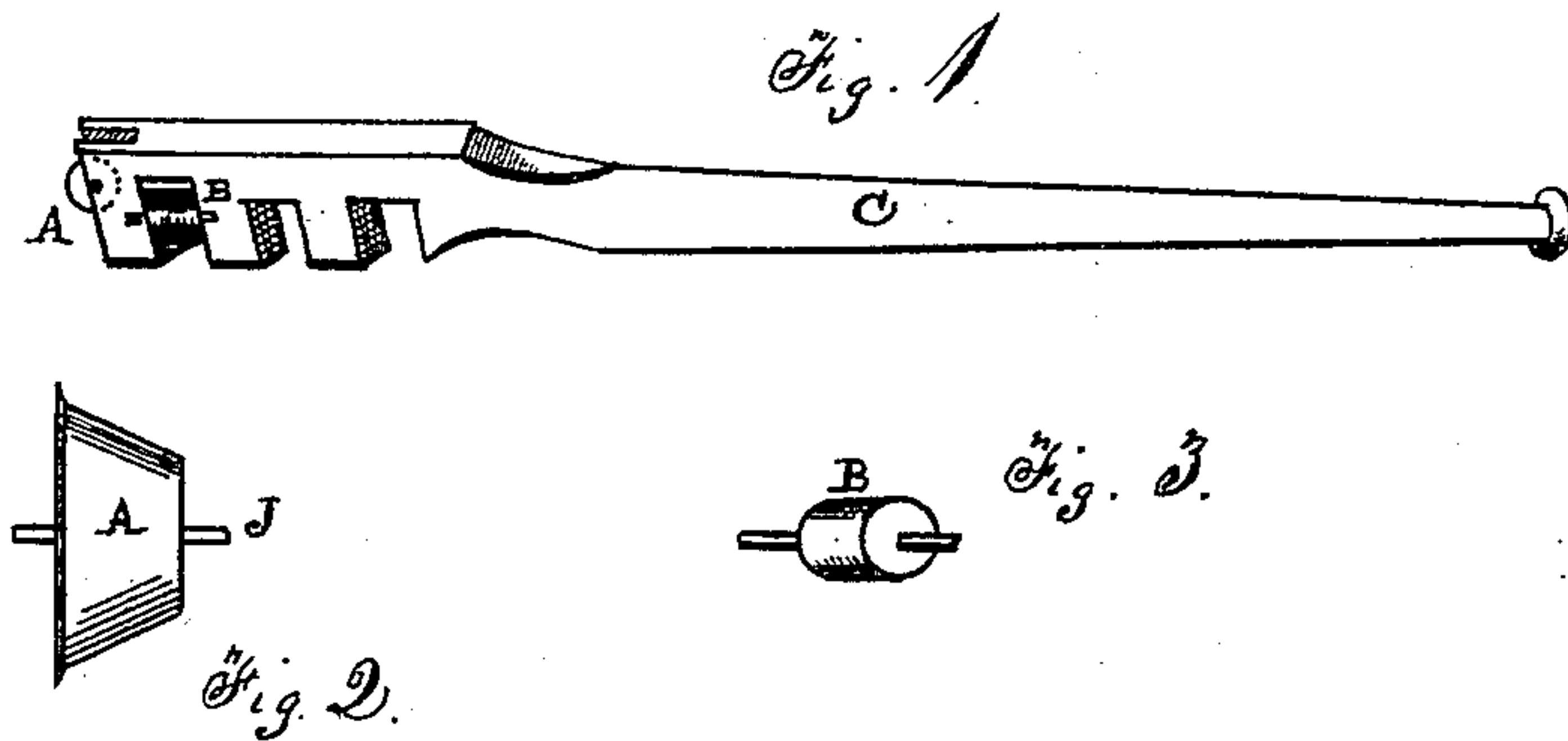


H. H. CLARK.
Steel Glass-Cutter.

No. 166,684.

Patented Aug. 17, 1875.



Geo. W. Van Hook
J. W. Farleigh

WITNESSES

Henry H. Clark.

INVENTOR

J. F. Reigar

Attorney

UNITED STATES PATENT OFFICE

HENRY H. CLARK, OF WASHINGTON, DISTRICT OF COLUMBIA.

IMPROVEMENT IN STEEL GLASS-CUTTERS.

Specification forming part of Letters Patent No. **166,684**, dated August 17, 1875; application filed June 30, 1875.

To all whom it may concern:

Be it known that I, HENRY H. CLARK, of the city of Washington, District of Columbia, have invented an Improved Steel Glass-Cutter, with guide-roller combined; and I do hereby declare the following to be an exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification, in which—

Figure 1 represents a perspective view of the glass-cutter and guide-roller combined. Fig. 2 shows the flanged conical wheel-cutter. Fig. 3 shows the roller.

The nature of my invention consists in a flanged conical wheel-cutter and guide-roller, as combined with the handle; and the object is to cut glass in a clearer line, while the roller prevents catching against the edge of the ruler, and allows the handle to have a clear and true movement.

A represents the flanged wheel-cutter, made of steel and conical in shape, the cutting-edge being, at the base or wide end of the cone, a straight flat edge, the other side of the cutter tapering with the shape of the cone. This cutter A works on an axle, J, in the slotted point of the handle C, and the cutting-edge operates flat against the inner side of the slotted point, so as to make a cleaner cut than by the cutting-edge of the center of a double-bevel wheel. The cutter A not only cuts straight on a line with the side of the slotted point, but it moves nearer to the edge of the ruler, (so as to cut two pieces of glass of the

same shape and size,) preventing the wheel from having any wobbling movement. In the notched end of the handle, and in the front notch, I insert an independent roller, B, that projects slightly on the inside, so as to bear against the edge of the rule when glass is being cut, relieve the handle of friction on the rule, and prevent the handle C from catching against the edge—a decided advantage over all other cutters—the journals of the roller B and the journals of the wheel A working and operating in the front or point of the handle C. The handle is constructed of a shape similar to the handles of common glass-cutters, or of any suitable shape desired. The guide roller or wheel B may be made of metal, or of any material desired.

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

1. The guide-roller B, made of any suitable material, and inserted near the end of the cutter-frame, and above the steel cutter, as herein described, and for the purposes set forth.

2. The flanged conical wheel-cutter A, operating as herein described, and for the purposes set forth.

3. The combination of the guide-roller B and flanged conical wheel-cutter A with the handle C, as herein described, and for the purposes set forth.

HENRY H. CLARK.

Witnesses:

J. FRANKLIN REIGART,
W. S. JENKS.