

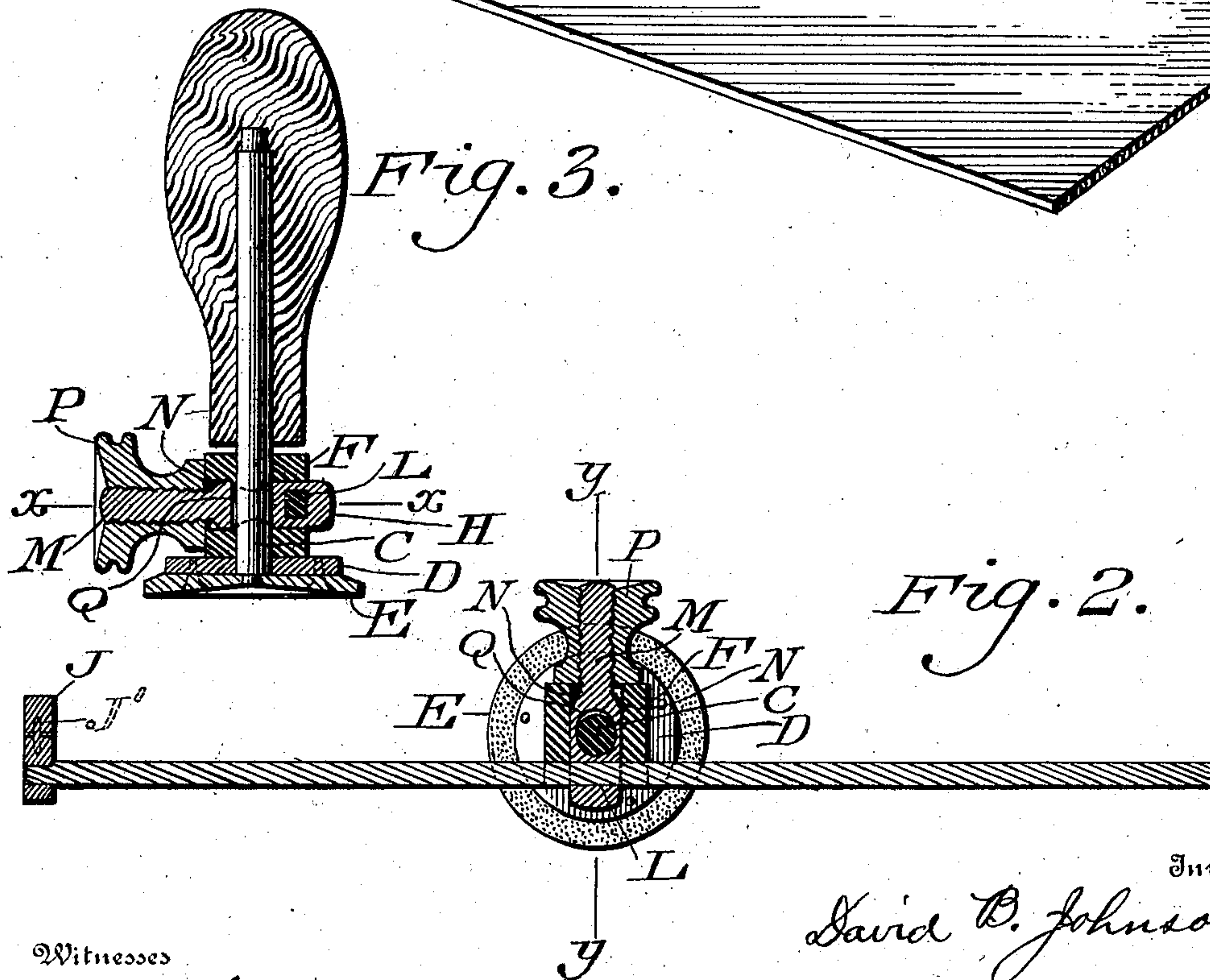
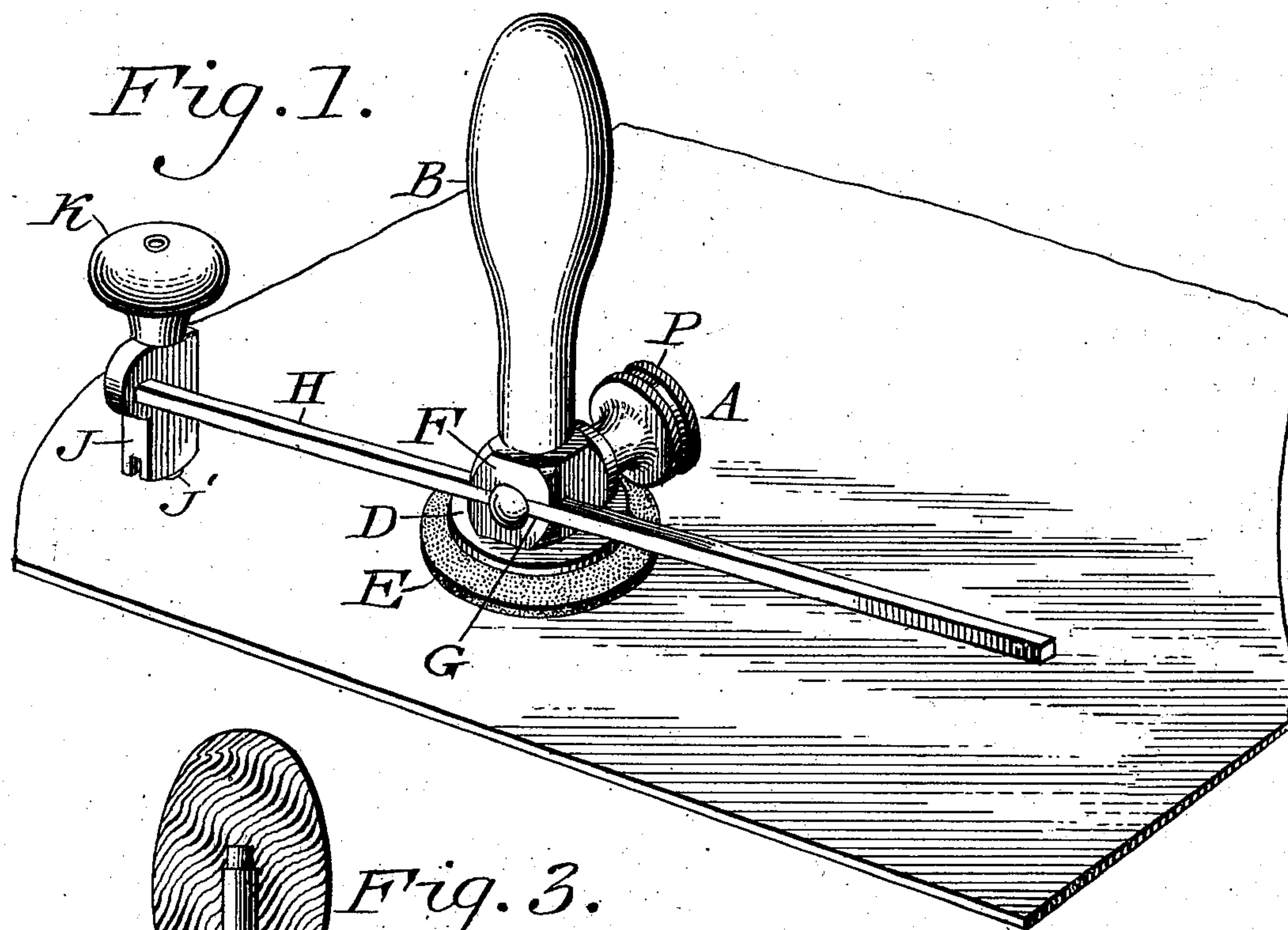
No. 702,732.

Patented June 17, 1902.

D. B. JOHNSON.
CIRCULAR GLASS CUTTER.

(Application filed Sept. 25, 1901.)

(No Model.)



Witnesses

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UNITED STATES PATENT OFFICE.

DAVID B. JOHNSON, OF AMBLER, PENNSYLVANIA.

CIRCULAR GLASS-CUTTER.

SPECIFICATION forming part of Letters Patent No. 702,732, dated June 17, 1902.

Application filed September 25, 1901. Serial No. 76,508. (No model.)

To all whom it may concern:

Be it known that I, DAVID B. JOHNSON, a citizen of the United States, residing at Ambler, county of Montgomery, State of Pennsylvania, have invented a new and useful Improvement in Circular Glass-Cutters, of which the following is a specification.

My invention consists of an improvement in circular glass-cutters, as will be hereinafter described and having the novel features pointed out in the claims.

Figure 1 represents a perspective view of a cutter constructed in accordance with my invention. Fig. 2 represents a horizontal section thereof, taken on line xx , Fig. 3. Fig. 3 represents a vertical section thereof, taken on line yy , Fig. 2.

Referring to the drawings, A designates a circular glass-cutter comprising a handle B, from the lower end of which extends a shank C, provided at its lower end with the base D. The under face of said base D is provided with a centering plate or pad E, of leather or analogous material, that affords the requisite frictional contact with the surface of the glass to enable the cutter to be readily held against the same while being operated. Freely mounted upon the shank C is the block F, the height of which is a little less than the distance between the end of the handle B and the adjacent side of the base D, said block being provided on one side with a guide-groove G to receive the arm H, carrying the cutter J, the latter being secured to one end of the arm and being provided with a swiveled finger-piece or knob K, by means of which it is rotated. The axis of the cutting-wheel J' of the cutter J is situated in a vertical plane of a radius from the shank C, around which it revolves, to insure a clean cut. The arm H is adapted to slide in the guide-groove G and passes through a slot L in the head of a bolt M, said head being adapted to slide in an opening N in said block, said slot L registering with said guide-groove G. The end of the bolt is screw-threaded and extends beyond the side of the block, where it is provided with a thumb-nut P, whose bearing is against said block, so that when the bolt is tightened the head of the bolt causes the arm H to be gripped by the walls of the slot L and guide-groove G, it

being noted that said bolt is provided with an elongated opening Q, through which the shank C passes freely. By loosening the thumb-nut P the grip upon the arm is released, so that the said arm can be moved longitudinally to regulate the radius at which the tool will cut, after which by again tightening the thumb-nut P the arm is securely held in its position.

It will be seen that when the device is placed on a piece of glass and held firmly thereagainst by the handle B the cutter is rotated by the handle or knob K, the block F freely rotating around the shank C, said cutter being pressed against the glass, and thus making a circular cut in the latter.

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

1. In a circular glass-cutter, a rotatable block, a bolt having a head fitted to slide in said block, a base, a shank passing freely through said block, and head, a handle on said shank, and a cutter-carrying arm adjustably fitted in a slot in said head, said block having a groove in its side in register with said slot of the bolt-head.

2. A circular glass-cutter, comprising a handle, a shank extending therefrom, a base upon the said shank, a frictional centering-plate upon said base, a cutter rotatably mounted upon said shank, a block mounted on said shank, a bolt having its head adapted to slide in said block, and a cutter-carrying arm adjustably fitted in said head and adapted to be carried by said head against said block, said bolt and block having openings for the free passage of said shank therethrough.

3. A circular glass-cutter, comprising a handle having a centering-plate connected therewith by a shank, a rotatable block mounted upon said shank, and provided in its side with a guide-groove, an arm adjustably secured in said groove and provided with a glass-cutter, a bolt having a head adapted to slide in said block and provided with a slot in which said arm is adjustably received, said shank passing freely through said block and head, and means for moving said bolt and carrying said arm into said groove.

4. A circular glass-cutter, comprising a handle having a centering-plate connected

therewith by a shank, a block rotatably mounted upon said shank and provided with a guide-groove, a bolt passing through said block and having a slot registering with said
5 guide-groove, a thumb-nut upon said bolt adapted to engage said block, and an arm passing through said guide-groove and slot and provided with a glass-cutter.

10 5. A circular glass-cutter comprising a handle, a shank, a centering-plate, said shank connecting said handle and plate, a longitudinally-moving arm having a cutter, said arm being rotatably mounted on said handle, a block mounted on said shank, a bolt hav-
15 ing its head adapted to slide in said block, said arm being passed through a slot in said head, and said shank passing freely through

said block and head, and means on said bolt whereby said arm is carried against said block. 20

6. A circular glass-cutter, comprising an arm having a centering-plate connected therewith by a shank, a block rotatably mounted upon said shank and movable longitudinally thereon, an arm connected with
25 said block and having a glass-cutter, a bolt having its head adapted to slide in said block and carrying said arm and a tightening-nut fitted on the threaded end of said bolt and adapted to engage said block.

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Witnesses:

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