No. 766,827. PATENTED AUG. 9, 1904.

H. F. HUGHES.

GLASS CUTTER.

APPLICATION FILED JUNE 9, 1903.

NO MODEL.

Fig. I

Fig. III

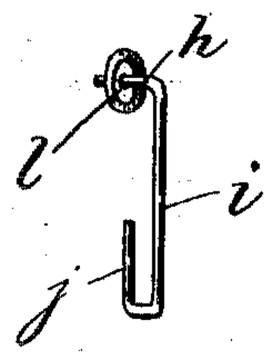

Fig. II

Witnesses
Ivan Konigsberg
Chas. F. Burgess

Inventor
Henry F. Hughes
By his Attorneys
Thomson Crosby & Gifford

No. 766,827. Patented August 9, 1904.

UNITED STATES PATENT OFFICE.

HENRY F. HUGHES, OF NEW YORK, N. Y., ASSIGNOR TO PHILIP O'REILLY AND JOHN O'REILLY, OF BROOKLYN, NEW YORK, DOING BUSINESS AS STANDARD STAMPING & DIE CO., OF BROOKLYN, NEW YORK, A FIRM.

GLASS-CUTTER.

SPECIFICATION forming part of Letters Patent No. 766,827, dated August 9, 1904.

Application filed June 9, 1903. Serial No. 160,710. (No model.)

To all whom it may concern:

Be it known that I, HENRY F. HUGHES, a citizen of the United States, residing in the borough of Brooklyn, county of Kings, city and State of New York, have invented certain new and useful Improvements in Glass-Cutters, of which the following is a specification.

My invention relates to glass-cutters, and has for its object to produce a tool in which the glass-cutting portion or cutter shall be so mounted as to be readily removable in order to be replaced by a new cutter.

In the accompanying drawings I have shown a glass-cutter in which one form of my invention is embodied, it being understood, however, that I do not mean to limit myself to the form so shown, but desire to have my claims construed as broadly as the prior art will permit.

In the drawings, Figure I shows a glass-cutter in which my invention is embodied, the said view being a side view. Fig. II is an edge view from the direction at right angles to the direction of the view in Fig. I; and Fig. III is a detail view of the cutting tool or wheel with its supporting-frame, the said parts being removed from the shank or body of the tool-support.

In the drawings, *a* indicates a suitable tool-support. This tool-support is herein shown as consisting of two sheet-metal plates *b c*, laid side by side and secured together by rivets *d* passing through the plates from opposite directions. The tool-support may be suitably slotted, as at *e*, and the end of each of the said plates is bent so as to form forked or bifurcated extensions *f g*. These extensions are suitably slotted to form open recesses for the reception of one end, *h*, of a tool supporting and retaining frame *i*, the other end, *j*, of the tool supporting and retaining frame being bent over and adapted to fit over the shoulder *k* at the back edge of the tool-support. A cutting tool or wheel *l* is provided, which rotates freely upon the journal formed by the bent-over end *h* of the tool supporting and retaining frame *i*. The cutting-tool when the frame is in place on the tool-support rests in the fork constituted by the bent-over ends *f g* of the tool-support, and the frame is maintained in place by being sprung over the shoulder *k*.

In addition to being rotatable upon the supporting and retaining frame the glass-cutter *l* may be removed laterally therefrom when the frame has been removed from the tool-support, as shown in Fig. III.

It will be obvious that when a cutting-wheel wears out the frame *i* carrying same can be removed from the tool-support and the wheel removed from the supporting and retaining frame and a new wheel substituted, the supporting and retaining frame being then returned to its original position.

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

1. In a glass-cutter the combination of a forked tool-support having a bearing, a tool supporting and retaining frame comprising in its structure a bent end *h* for supporting a rotary tool and a bent end *j* for engaging the tool-support, and a freely-rotatable glass-cutting tool hung upon the said tool supporting and retaining frame and located in the forked portion of the tool-support.

2. In a glass-cutter, the combination, of cutting-tool, a tool-support having a bearing at its end and a means for engagement by a tool carrying and retaining frame, and a tool carrying and retaining frame seated at one end in the bearing and having a bent or angular rear end adapted for engagement with its complemental means for engagement on the tool-support.

3. A glass-cutter, comprising a tool-support having a slotted front edge and a lateral slot *k* at its side edge, a wire frame having a bent end *h* seated in the slot at the front edge of the support and a bent end engaging the slot *k*, and a cutting-tool carried by the wire frame.

HENRY F. HUGHES.

Witnesses:
FRANK HUGHES,
MARTIN DUFFY.