E. MEHLEM.

GUIDED GLASS CUTTER.

APPLICATION FILED FEB. 13, 1911.

997,310. Patented July 11, 1911.

Fig. 1.

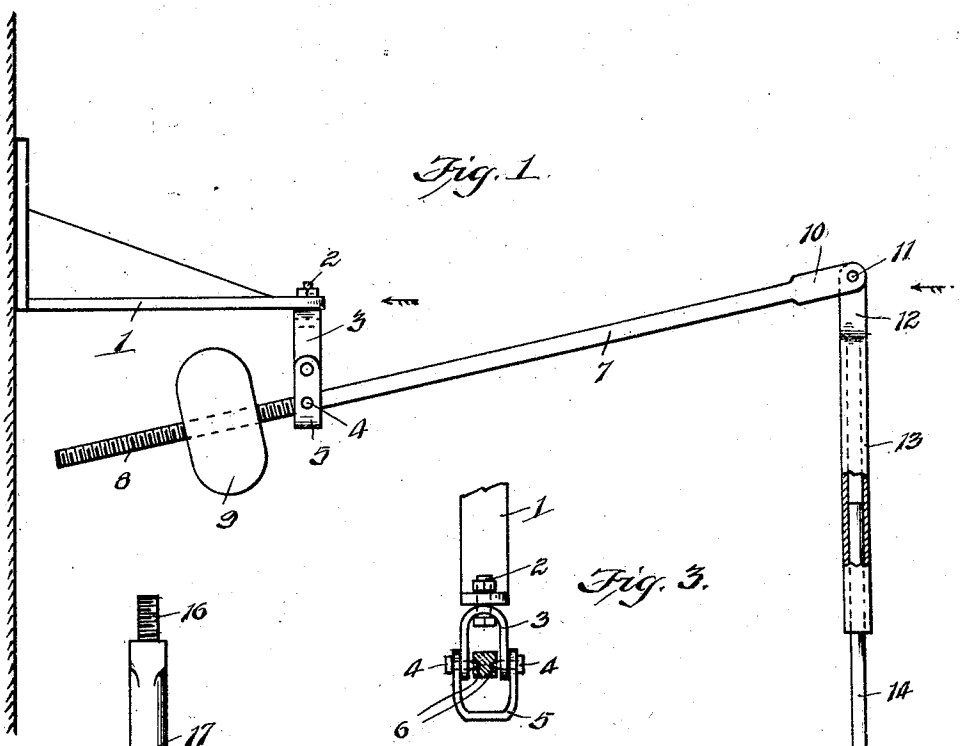


Fig. 3.

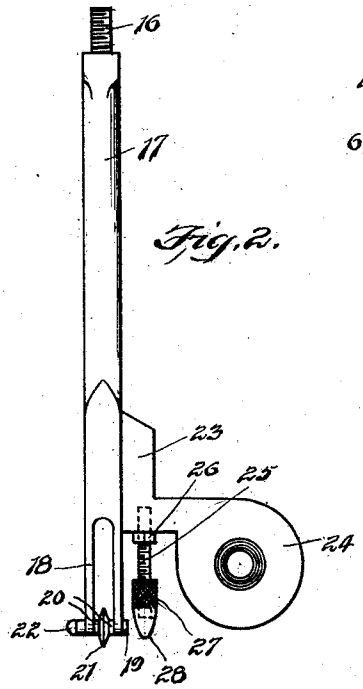
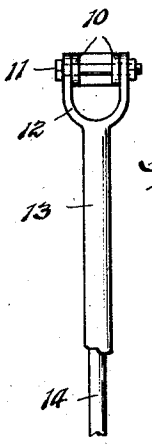
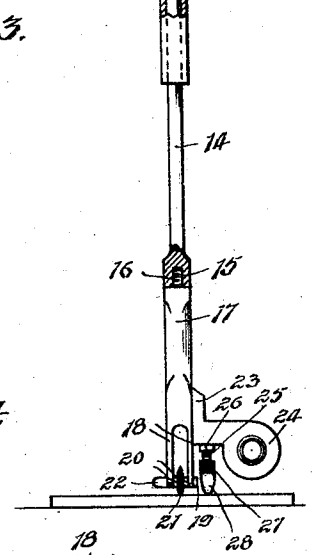


Fig. 2.

Fig. 4.





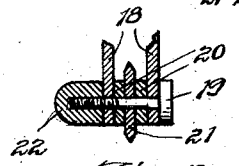


Fig. 5.

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GUIDED GLASS-CUTTER.

997,310. Specification of Letters Patent. Patented July 11, 1911.

Application filed February 13, 1911. Serial No. 608,266.

To all whom it may concern:

Be it known that I, EMMA MEHLEM, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Guided Glass-Cutters, of which the following is a specification.

This invention relates to improvements in glass-cutters and has for its object to provide a device, which will be simple and inexpensive in manufacture, durable and efficient.

A further object is to provide a cutter adapted to be suspended from a rocking arm, which is free to move in any direction.

A still further object is to provide an adjustable guide for the cutter so as to be able to regulate the depth of the cut.

With the above and other objects in view the invention consists in certain new and novel features of construction, arrangement and combination of parts hereinafter fully described and finally pointed out in the claims hereto appended; it being of course understood that various changes such as in the form, proportions and minor details of construction may be resorted to without departing from the spirit of the invention or sacrificing any of the advantages thereof.

Referring to the accompanying drawings forming a part of this specification wherein like characters of reference denote similar parts throughout the several views: Figure 1, is a side elevation of my improved glass cutter attached to a bracket, which is secured to a wall. Fig. 2, is a side elevation of the glass cutter proper. Fig. 3, is a sectional view taken on line *x*—*x* of Fig. 1. Fig. 4, is a view looking at the end of the rocking arm. Fig. 5, is a detail of the means for holding the cutting disk in position.

In carrying out the aim of my invention, I employ a suitable bracket 1, which is adapted to be suitably secured to a wall or the like. Pivotally connected to the end of the bracket 1, by means of the bolt 2, and depending therefrom is a U-shaped member 3. Pivotally connected to the U-shaped member 3 by means of the pin 4 is a U-shaped member 5, as clearly shown in Figs. 1 and 3. Pivotally supported by means of the conical ends 6 of the pins 4 is a rocking-arm 7 is threaded as at 8 and is provided with a suitable weight 9 to normally hold the arm 7 in position. The extreme opposite end of the rocking-arm 7 is forked or U-shaped as at 10. Pivotally connected to the U-shaped end 10 of the arm 7 by means of the pin 11 is the forked or U-shaped end 12 of the tubular member 13, which depends therefrom. Adapted to enter the tubular member 13 and work freely therein is a rod 14 to provide a telescopic member. The lower end of this rod 14 is provided with a threaded opening 15 adapted to receive the threaded stem 16 of the cutter rod 17. The lower end of the cutter rod 17 is forked or U-shaped as at 18 and is provided near its extremity with a partly threaded pin 19, which is adapted to receive the two collars 20, and the glass cutting disk 21. The pin 19 is held in position by means of the threaded cap or head 22, as clearly shown in Fig. 5. Suitably secured to the cutter rod 17 at the end thereof is an arm 23, which terminates in a circular member 24 adapted to be grasped by the fingers of the operator for holding the cutting disk against the glass to be cut. Suitably secured to and depending from arm 23 is a threaded pin 25, which is held at any desired elevation by means of the nut 26. The lower end of this threaded stem 25 is provided with an interiorly threaded cap 27 having the cone shaped lower end 28, which is adapted to engage the glass being cut to regulate the depth which the cutting disk should cut. The raising and lowering of this cap 27, which is adjacent the cutting disk will regulate the depth of the cut as is manifest.

When it is desired to cut a piece of glass the operator simply grasps the cutter at 24 with the forefinger and thumb and draws the cutting disk over the glass cutting any desired design without any difficulty whatsoever. When the operator has finished the cutting the weight 9 will raise the cutter from the glass automatically. The one great advantage of this guided glass cutter over the ordinary glass cutter is that a child can cut any kind of a design either fancy or plain with perfect ease and safety and without leaving a rough edge.

From the foregoing description it will be readily seen that I provide a cutter, which is very simple and easily operated and that the many advantages thereof will readily suggest themselves to any experienced glass cutter, either fancy or plain and especially the fancy glass cutter.

What I claim is:

1. A guided glass cutter comprising a metallic body having a forked end, a removable rotatable disk carried by the forked end of said body, means projecting from the side of said body adapted to be grasped by the hand of the operator for operating said cutter, and means carried by said projection for regulating the depth which said cutting disk shall cut.

2. A guided glass cutter comprising a swinging arm, adjustable means for normally holding said arm in an inclined position, adjustable means pivotally connected to one end of said swinging arm, a metallic body having a forked end removably connected to the lower end of said adjustable means, a metallic glass cutting disk rotatably carried at the lower end of said forked body, and vertically adjustable means carried by said metallic body for regulating the depth which said cutting disk shall cut.

3. A guided glass cutter comprising a body portion having a U-shaped lower end, a metallic glass cutting disk rotatably carried at the lower end of said U-shaped end, a threaded member depending from said body adjacent said U-shaped end, means for changing the elevation of said threaded member, and an interiorly threaded cap adapted to be carried by said threaded member for regulating the depth which said cutting disk shall cut.

4. A guided glass cutter comprising a supporting bracket, a swinging arm pivotally connected with said bracket, a weight adjustably secured to said swinging arm, a telescopic means pivotally connected to said arm and adapted to depend therefrom, a forked arm removably secured to said telescopic means, a circular glass cutting disk pivotally connected with the forked end of said arm, means secured to the forked end of said arm adapted to be grasped by the hand of an operator for actuating the cutter, and adjustable means connected with said first mentioned means for regulating the depth which the cutting disk shall cut.

In testimony whereof I have signed my name to the specification in the presence of two subscribing witnesses.

EMMA MEHLEM.

Witnesses:
FREDK. J. LARSON.
OSCAR L. JOHNSON.