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R. VOM CLEFF, JR. & C. F. BENEDICT.

GUIDE CLAMP.

APPLICATION FILED MAY 31, 1905.

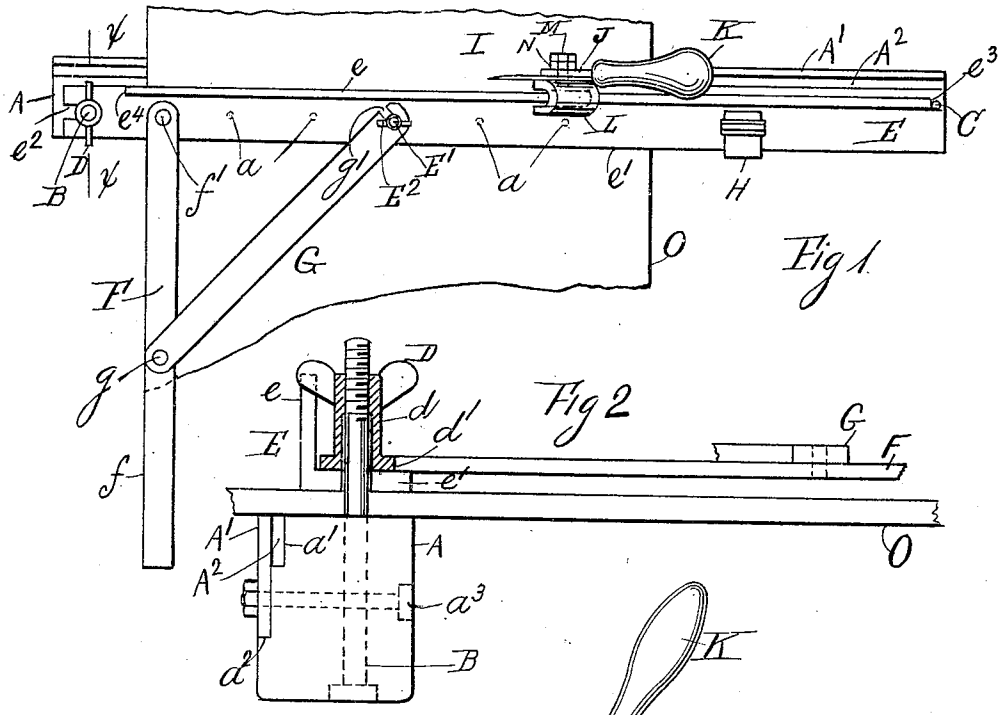


Fig 1.

Fig 2

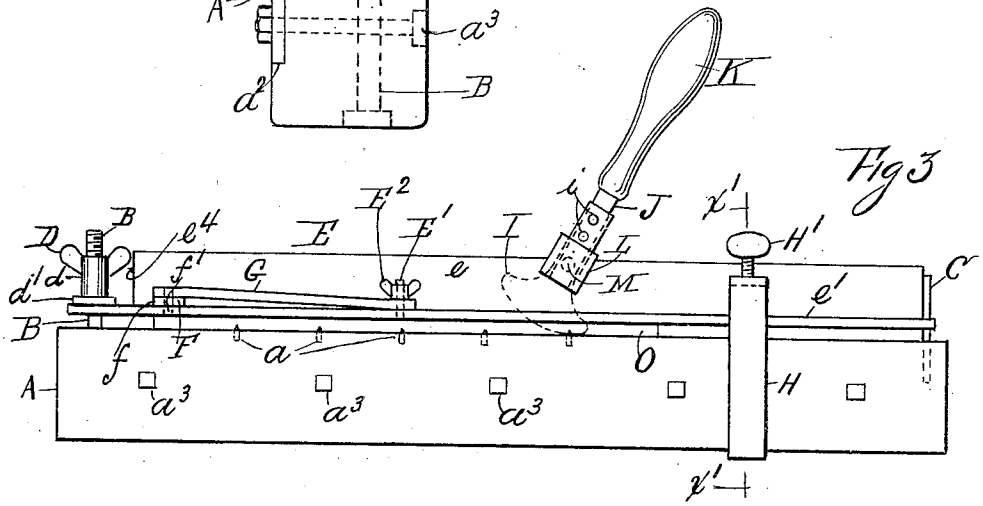


Fig 3

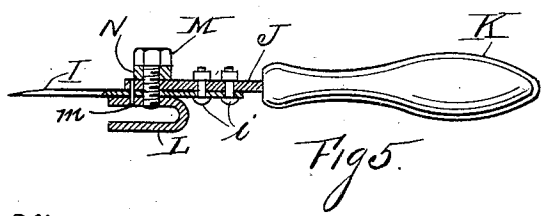


Fig 5.

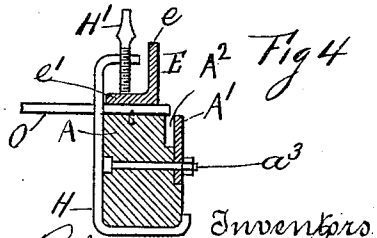


Fig 4

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UNITED STATES PATENT OFFICE.

ROBERT VOM CLEFF, JR., OF JERSEY CITY, NEW JERSEY, AND CHARLES F. BENEDICT, OF BROOKLYN, NEW YORK.

GUIDE-CLAMP.

No. 814,188. Specification of Letters Patent. Patented March 6, 1906.

Application filed May 31, 1905. Serial No. 263,174.

To all whom it may concern:

Be it known that we, ROBERT VOM CLEFF, Jr., a resident of Jersey City, in the county of Hudson, State of New Jersey, and CHARLES F. BENEDICT, a resident of the borough of Brooklyn, county of Kings, State of New York, citizens of the United States, have jointly invented a certain new and useful Guide-Clamp, of which the following is a specification.

This invention relates to guide-clamps for cutting belting and the like. Its organization comprises means for tightly clamping a belt and the like in place and guiding a knife or other cutting device to sever the same.

In the drawings, Figure 1 shows a plan view of the invention with a piece of belting clamped in place. Fig. 2 shows an enlarged end view and partial section of Fig. 1 on the line x x. Fig. 3 is a front view of Fig. 1. Fig. 4 represents a section of Fig. 3 on the line x' x'. Fig. 5 is an enlarged plan view and partial axial section of a knife arranged to be used in the device.

A base is shown at A, which has extending therefrom the gripping-pins a, the post or bolt B, and the stop C. It is notched on one of its side faces at a' and a^2 and has bolted thereto the support A′ with the bolts a^3, forming a groove A^2 adjacent to one of the edges of the upper face of the base, securing clearance for any cutting-tool that may be used with the device.

The post B is threaded for a portion of its length from its end, and its surface for a portion of its length next adjacent to the upper face of the base A is smooth. A wing-nut D fits the threaded end of the post B, and the lower portion of its barrel d is slightly larger in diameter than the said post and has a flange or projecting collar d'.

An angular guide-rail E, with the vertical member e and horizontal member e', is held in position over the base A. It has the slot e^2 for the post B and the notch e^3 for the stop C. It carries a threaded pin E′ with a wing-nut E^2, and the member e is generally cut away, as shown at e^4, for the wings of the nut D. An adjustable guide-bar F with a straight and smooth edge f coacts with and is pivoted, by means of the pin f', to the member e' of the said guide-rail E and carries the guide-brace G on the pivot g. The said brace G has at its free end the slot g', by means of which it can be clamped to the said member e' of the guide-rail E with the threaded pin E′ and wing-nut E^2. A clamp H partially encircles the base A and carries the clamping-screw H′, that is arranged to bear on the member e' of the guide-rail E and prevents the latter from becoming disengaged from the base A.

The knife is shown with the blade I, that is bolted to the tang J with the bolts i, and a handle K is shown at the end of the said tang. The essential feature of the knife is the U-shaped supporting-flange L, that is bolted to the blade and tang with the bolt M and jam-nut N, a pin m preventing the knife, tang, and flange turning on one another.

To use the invention, a piece of belting O or other material is placed on the base A, and the guide-rail E is placed on the said belting. The slot e^2 is engaged with the post B, and the notch e^3 with the stop C, the edge f of the guide-bar F having been fixed in place at right angles to the guide-rail E and the longitudinal edge of the belt located in line with the edge f of the guide-bar. Next the wing-nut D and bolt H′ are screwed down, when the gripping-pins a will engage the belt O and hold it firmly in place. Then the knife or other cutting-tool, with its U-shaped flange L bearing on the vertical member e of the guide-rail, is moved along the same, and the cutting edge of the knife severs the belt in a straight line at right angles to the edge f of the guide-bar F.

Having described our invention, we claim—

1. In a guide-clamp the combination of a base, a guide-rail, means to adjustably secure the latter to the base to hold the material to be operated upon in place, and an adjustable guide-bar pivoted on said guide-rail.

2. In a guide-clamp the combination of a base having a groove in its upper face near an edge thereof, a guide-rail adjustably secured to the top face of the base and parallel to the said groove, and an adjustable guide-bar coacting with said guide-rail.

3. In a guide-clamp the combination of a base, a support on one of its sides secured over a notch thereon, a guide-rail adjustably secured on top face of the base, and an adjustable guide-bar pivoted on said guide-rail.

4. In a guide-clamp the combination of a base having a groove on one of its edges, a post extending from the top face of the base,

a guide-rail over the base arranged to be held in position on said post, an adjustable guide-bar coacting with said guide-rail, and means to secure the guide-rail and base together.

5. In a guide-clamp the combination of a base, having a groove on one of its edges, a threaded post extending from the top face of the base, and a nut for the post, a guide-rail over the base arranged to be held in position on said post, an adjustable guide-bar pivoted on said guide-rail, a guide-brace pivoted to the guide-bar, means to connect the free end of the guide-brace and the said guide-rail and a clamp to secure the guide-rail and base together.

6. In a guide-clamp the combination of a base, having a groove at one of its top edges, gripping-pins extending from its top face, a support on one of its sides secured over a notch thereon, a threaded post extending from the top face of the base, an angular guide-rail with a horizontal and vertical member over the base, and having an opening in its horizontal member fitting over the said post, a nut on the post to clamp the said guide-rail in place, a guide-bar pivoted to the horizontal member of the guide-rail, a guide-brace pivoted to the guide-bar and having a slot in its free end, a threaded pin extending from the horizontal member of the guide-rail, to engage the slot of the guide-brace, a nut on the latter pin, a stop-pin extending from the base to engage a notch of the guide-rail, and a clamp to engage the said guide-rail and base.

7. In a guide-clamp the combination of a base, gripping-pins extending from its top face, to grip the material to be cut, a support on one of its sides secured over a notch thereon, a threaded post extending from the top face of the base, an angular guide-rail with a horizontal and vertical member over the base, and having an opening in its horizontal member fitting over the said post, a nut on the post to clamp the said guide-rail in place, a guide-bar pivoted to the horizontal member of the guide-rail, a guide-brace adjustably connecting the guide-bar and guide-rail, and a clamp to engage the guide-rail and base.

8. In a guide-clamp the combination of a base, gripping-pins extending from its top face, a support on one of its sides over a notch thereon, bolts connecting the support and base, a threaded post extending from the top face of the base, an angular guide-rail with a horizontal and vertical member, the vertical member arranged to support a flange of a cutting-tool and guide the same, and the said horizontal member having a slot to engage the said post, an adjustable guide-bar pivoted to the said horizontal member, a guide-brace pivoted to the guide-bar, and means at its free end to be thereby clamped to the guide-rail, a clamp to engage the said guide-rail and base with a piece of belting between their accompanying faces.

Signed at New York, in the county of New York and State of New York, this 25th day of May, A. D. 1905.

ROBERT VOM CLEFF, JR. [L. S.]
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Witnesses:
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