B. L. JIROUCH.

CABLE GUIDE FOR DROP LEAF SEWING MACHINE CABINETS.

APPLICATION FILED APR. 14, 1915.

1,176,758. Patented Mar. 28, 1916.

Fig. 1.

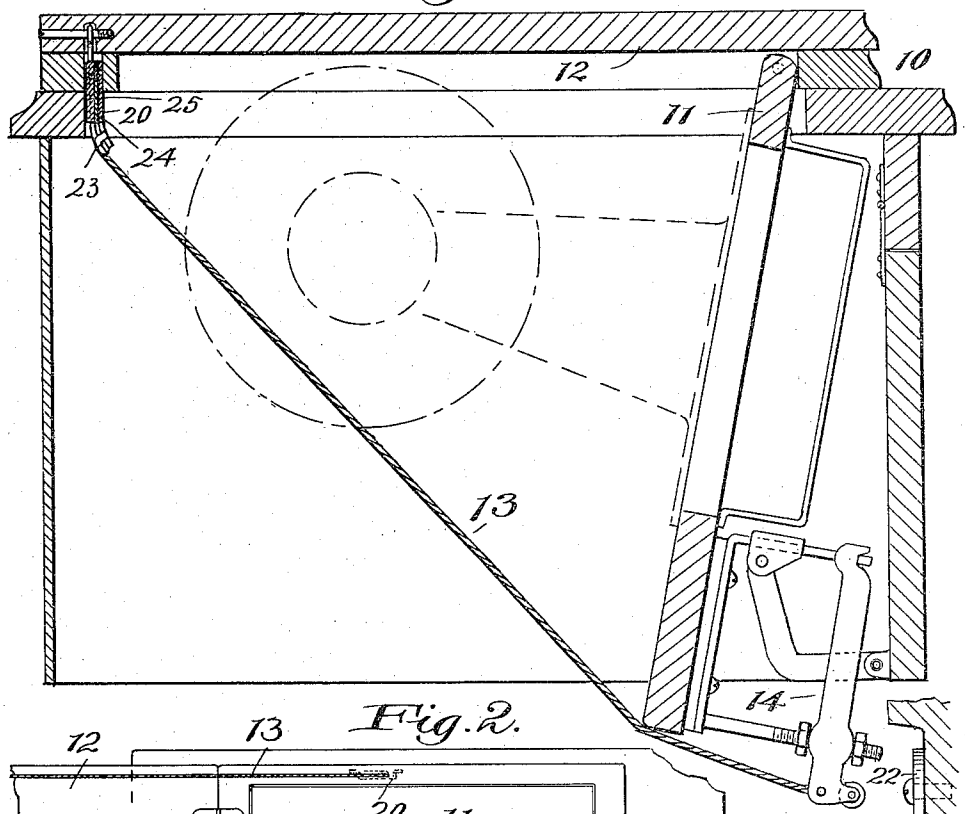


Fig. 2.

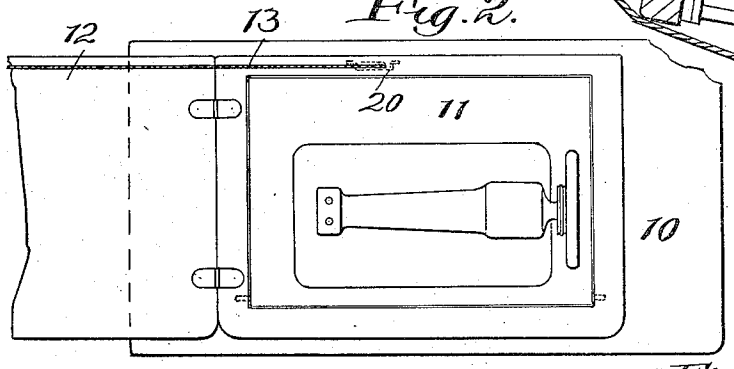


Fig. 5.

Fig. 3.

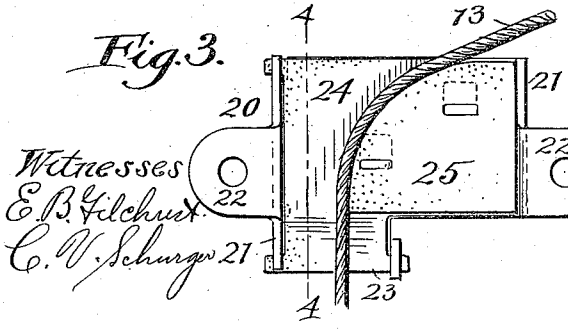
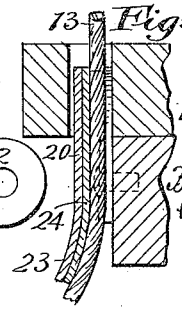


Fig. 4.



Witnesses
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UNITED STATES PATENT OFFICE.

BOHUMIL L. JIROUCH, OF BEDFORD, OHIO, ASSIGNOR TO THE WHITE SEWING MACHINE COMPANY, OF CLEVELAND, OHIO, A CORPORATION OF OHIO.

CABLE-GUIDE FOR DROP-LEAF SEWING-MACHINE CABINETS.

1,176,758. Specification of Letters Patent. Patented Mar. 28, 1916.

Application filed April 14, 1915. Serial No. 21,431.

To all whom it may concern:

Be it known that I, BOHUMIL L. JIROUCH, a citizen of the United States, residing at Bedford, in the county of Cuyahoga and State of Ohio, have invented a certain new and useful Improvement in Cable-Guides for Drop-Leaf Sewing-Machine Cabinets, of which the following is a full, clear, and exact description.

This invention resides in the use of a novel cable guide in combination with the kind of drop leaf sewing machine cabinets which are shown and described in the Grothe Patent No. 799,331; and the particular object of the invention is to prolong the useful life of the cable therein shown as means for effecting an operative connection between the hinged drop leaf and the extension top which serves as the lever by means of which the drop leaf is raised or allowed to swing downward.

The invention consists in the construction and combination of parts shown in the drawings and hereinafter described and definitely pointed out in the appended claim.

In the drawings, Figure 1 is a sectional side elevation of a drop leaf sewing machine cabinet equipped with the invention; Fig. 2 is a plan view thereof; Fig. 3 is a rear view of the bracket plate and its associated parts when detached; Fig. 4 is a sectional view showing said bracket plate and associated parts in position for use; Fig. 5 is a plan view of said bracket plate and associated parts.

The sewing machine cabinet includes a top 10 in which is a rectangular hole, a drop leaf 11 fitted to said hole and hinged along one (as shown the front) longitudinal edge to said table top; an extension top 12 which is hinged to the top 10 on a transverse horizontal axis which is at right angles to the axis about which the drop leaf turns.

13 represents a flexible wire cable which is connected at one end with the said extension top and at its other end with said drop leaf; or, more exactly, with a lever arm 14 which is adjustably fixed to said drop leaf. The part of the cable above the table top extends in a generally longitudinal direction, and a part of the cable below the top extends in a generally transverse direction; and this cable is deflected or turned from one direction to the other by guiding devices constructed substantially as follows: 20 represents a bracket plate having a recess in its rear face formed by the two rearwardly extended flanges 21 formed on its ends. Integral with these flanges are the two laterally extended ears 22, by means of which this recessed bracket plate may be secured to the table top adjacent to the free edge of the drop leaf. This bracket plate is also formed with a downwardly extended and forwardly curved arm 23. Within the recess in this bracket plate is a quadrant shaped guide block 25, which is fixed in position as shown; and this is made of some material which is softer than the cable, but not too soft to wear out readily. The material known as vulcanized fiber has been found to be suitable for the purpose. This block is secured against the inner face of the lining strip, and is of such thickness that its rear edge is flush with the rear face of the ears 22. The inner face of the bracket plate and of the curved arm thereof is covered or faced by a strip 24 of this same material.

As the extension top is swung, and the drop leaf 11 raised or lowered, the cable 13 will slide upon the curved edge of this fixed block, and against the inner curved surface of the lining strip, and will thereby be deflected as required. Strange as it may seem, this sliding of the cable upon these surfaces which do not move, produces far less wear upon the cable than is produced when said cable moves in contact with the rotating sheave and the rotating roller shown in said prior patent.

Having described my invention, I claim:

In a drop leaf sewing machine cabinet having an opening through its top, a drop leaf fitted to said opening and hinged along one of its longitudinal edges to said top, an extension leaf hinged to the top on a horizontal transverse axis, a recessed bracket plate fixed to the cabinet top adjacent to the free edge of the drop leaf said bracket plate being formed with a downwardly extended curved arm, a quadrant shaped block made of material softer than the cable, which block is immovably secured in the recess of said

bracket plate with its curved edge adjacent to said curved arm, a facing strip of like material secured against the inner face of said bracket plate and its curved arm, and a flexible cable which is fixed at its ends to said drop leaf and extension top respectively and which passes down through the recess of said bracket plate in contact with the curved edge of said block and with said facing strip.

In testimony whereof, I hereunto affix my signature in the presence of two witnesses.

BOHUMIL L. JIROUCH.

Witnesses:

WILLIAM GROTHE,

J. O. HUFFMAN.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."