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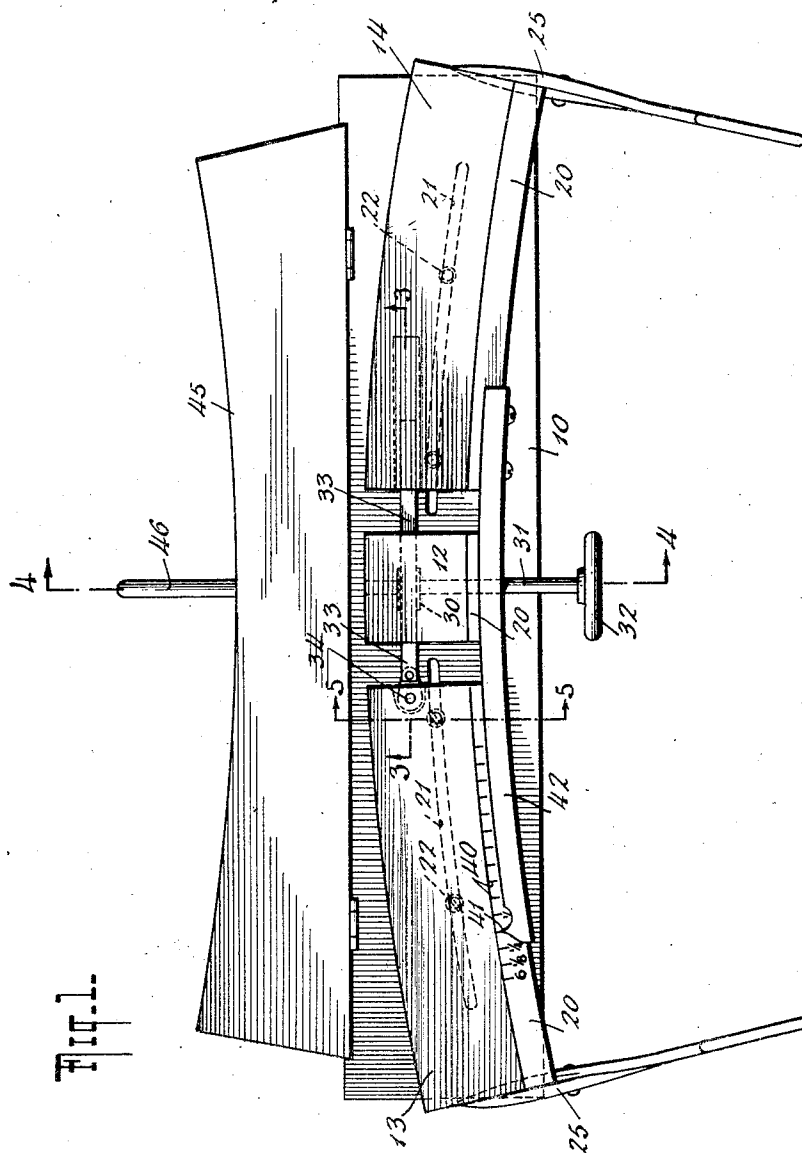
1,666,658

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APPARATUS FOR CUTTING HAT SWEAT LEATHERS

Filed May 13, 1925

2 Sheets-Sheet 1



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Fig. 2.

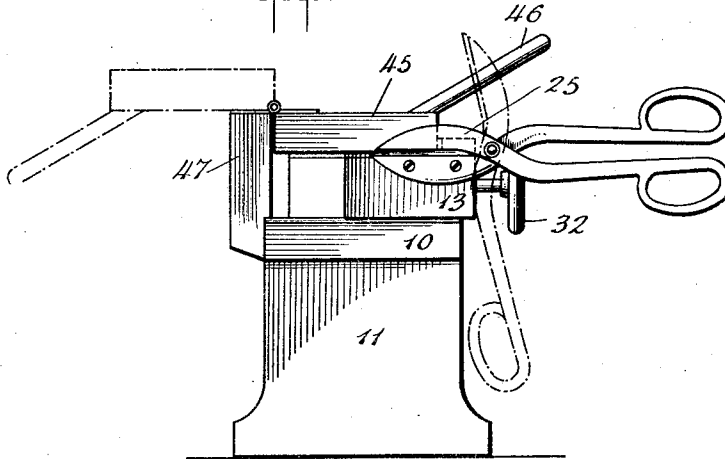


Fig. 3.

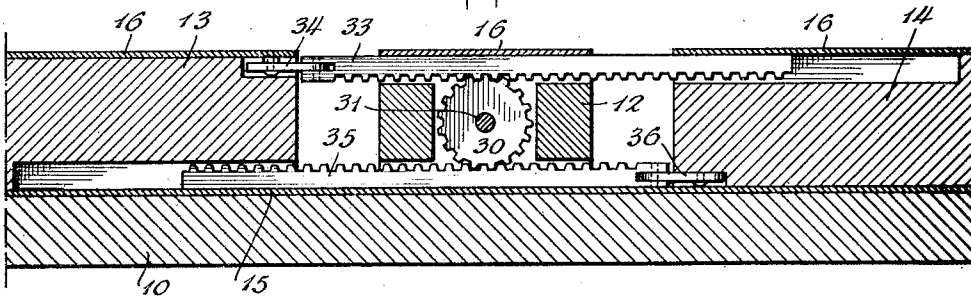


Fig. 4.

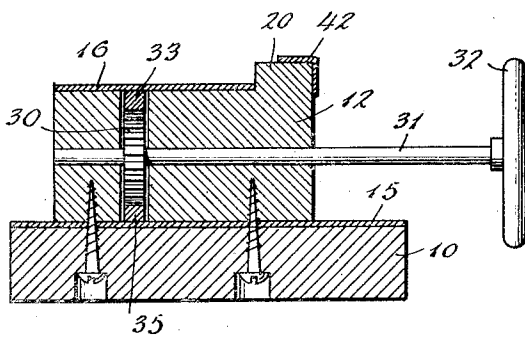
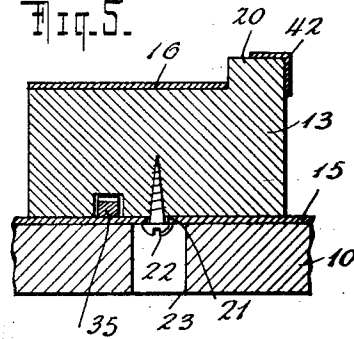


Fig. 5.



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APPARATUS FOR CUTTING HAT SWEAT LEATHERS.

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This invention relates to apparatus for cutting hat sweat leathers and other strips of material to various predetermined lengths.

Sweat leathers for hats as supplied to the manufacturer are usually of a length more or less in excess of that required for the larger sized hats, and it is necessary for the manufacturer to cut these sweat leathers or strips to the proper length for hats of various sizes. The object of the present invention is to provide a simple, durable and easily operated machine or cutting device whereby the sweat leathers may be cut accurately and quickly to the desired lengths for hats of various sizes.

A full understanding of the invention can best be given by a detailed description of a sweat leather cutting machine embodying the features of the invention, and such a description will now be given in connection with the accompanying drawings illustrating such an approved embodiment.

In said drawings:—

- Fig. 1 is a plan view of the machine;
- Fig. 2 is an end view;
- Fig. 3 is a section taken on line 3—3 of Fig. 1 but on a larger scale;
- Fig. 4 is a section taken on line 4—4 of Fig. 1; and
- Fig. 5 is a section taken on line 5—5 of Fig. 1.

Referring to the drawings, the operative parts of the machine illustrated are mounted on a base piece 10 which is supported by a pedestal 11. For supporting the strips to be cut there is provided a strip support formed by a central portion or block 12 secured to the base piece 10 and two end portions or blocks 13 and 14 which are slidably mounted on the base 10 so as to be movable toward and away from the central block 12. The base 10 and blocks 12, 13 and 14 are desirably made of wood, and the base 10 has a metal plate 15 on its upper side to provide a bearing surface on which the blocks 13 and 14 slide, and the blocks 12, 13 and 14 have metal plates 16 secured on their upper sides providing the supporting surface on which the sweat leathers or other strips are placed. The blocks 12, 13 and 14 are provided with upstanding edge portions 20 providing a positioning shoulder against which the sweat leathers may be positioned on the supporting surface, and this positioning shoulder formed by the inner edges of

such upstanding portions is curved to correspond to the slight curvature of the sweat leathers. The blocks 13 and 14 are guided to move on the base 10 in curved paths extending concentrically about the axis of curvature of the positioning shoulder. For this purpose curved slots 21 are formed in the bearing plate 15 and the blocks 13 and 14 are held to the bearing plate and guided in their movement by screws 22 extending through the slots 21, the body of the base piece 10 being cut away as shown at 23 in Fig. 5 to permit of insertion of the screws and to accommodate the screw heads.

A strip cutting device is provided on the outer end of each of the blocks 13 and 14 as shown. Each such cutting device as shown consists of a pair of shears 25, the lower blade of which is fastened to the end of the block with its cutting edge flush with the supporting surface. Instead of having the shears arranged to cut all the way across the leather strip, it is sometimes desirable to have them arranged as shown so that they do not cut entirely across the strip but leave a small uncut width of leather at the bottom, or longer, edge of the strip so that extending tabs may be shaped at the ends of the strips for overlapping when the strip is sewed into the hat.

Located within an opening in the central block 12, is a gear wheel 30 mounted on a shaft 31 provided with a hand wheel 32. A toothed bar 33 connected to the block 13 by a link 34 extends over the gear wheel 30 with its teeth in engagement with the teeth of the wheel, and a similar toothed bar 35 connected to the block 14 by a link 36 extends beneath the gear wheel with its teeth meshing with the wheel teeth. When the handle 32 is turned in one direction, the gear wheel will act through the toothed rods 33 and 35 to move the blocks 13 and 14 outward, thereby lengthening the support, and when the handle is turned in the other direction, the gear wheel will act to draw the blocks inward to shorten the support. The blocks 12, 13 and 14 are suitably cut away to accommodate the toothed rods and links.

For indicating the adjustment of the support, that is, the length to which a strip positioned on the support will cut, a scale 40 graduated to indicate by hat sizes various positions of adjustment of the support is provided on the upstanding portion 20 of one of the movable blocks, and a pointer

41 carried by an arm 42 extending from the other movable block is provided for indicating readings on the scale. A plate 45 having a handle 46 is hinged to brackets 5 47 extending upward from the rear side of the base 10 so that it may be swung forward and downward to the position shown by full lines in Fig. 2 to rest on a sweat leather positioned on the support, or may 10 be swung back to the inoperative position shown in Fig. 1 and by dotted lines in Fig. 2. This cover plate is of suitable weight to hold the strips in position on the support, and its free edge is desirably curved 15 to fit close to the curved positioning shoulder of the support.

In the use of the device, the hand wheel 32 is turned one way or the other as may be required to bring the pointer 41 into 20 position to indicate on the scale 40 the size of hat for which the sweat leather is to be cut; the leather is laid flat on the supporting surface of the support with the concave edge of the leather against the positioning shoulder of the support, and the 25 cover plate 45 is lowered to hold the leather firmly positioned. By means of the shears 25 the leather is then cut to the required size, the cover plate is lifted, and the cut 30 leather is removed.

It is usual to have the hat maker's name or some suitable design printed or embossed on the sweat leathers before they are cut to various sizes, and it is desirable that such 35 names or designs on the leathers shall be located centrally of the cut leathers or otherwise uniformly located on the cut leathers as to have a uniform location in the hats. In addition to other advantages of having 40 the machine made with two oppositely movable end portions of the strip support, instead of having only a single movable portion at one end, this construction has the advantage that hat leathers to be cut of different 45 lengths may all be placed on the support with the markings on the leathers in the same position with relation to the length of the support.

It is to be understood that the invention 50 is not to be limited to the exact construction shown, but that it includes changes and modifications thereof within the claims.

What is claimed is:

1. A strip cutting machine, comprising in 55 combination means providing a supporting surface which is adjustable in length, a cutting device at each end of the supporting surface, means for holding the strip to be cut positioned on the supporting surface, 60 and indicating means for indicating the length to which the strip will be cut.

2. A strip cutting machine, comprising in 65 combination a strip support including a part which is adjustably movable relative to another part thereof for varying the length

of the support, a cutting device at each end of the support, a scale on one of said parts of the support, and a pointer carried by the other of said parts of the support for indicating on said scale the length to which the 70 strip will be cut.

3. A strip cutting machine, comprising in combination a strip support having a positioning shoulder at one edge of the supporting 75 surface of the support curved in the plane of the supporting surface, said support including a portion which is adjustably movable concentrically about the axis of curvature of said shoulder for varying the 80 length of the support, and a cutting device at each end of the support.

4. A strip cutting machine, comprising in combination a strip support having a flat 85 supporting surface for supporting the strip to be cut and having a positioning shoulder at one edge of the supporting surface which is curved in the plane of the supporting surface, said support comprising two end 90 portions which are adjustably movable concentrically about the axis of curvature of said shoulder for varying the length of the support, adjusting means for simultaneously moving said end portions inward or outward, means for holding the strip on the 95 supporting surface, a cutting device at each end of the support, a scale on one of said end portions of the support, and a pointer carried by the other of said end portions of the support for indicating on said scale the 100 length to which the strip will be cut.

5. A strip cutting machine, comprising in combination a strip support comprising a 105 central portion and two end portions which are adjustably movable for varying the length of the support, the central portion being cut away, a gear wheel mounted within the central portion, toothed bars extending 110 from the end portions and engaging opposite sides of said gear, a handle for turning said gear whereby the end portion may be moved outward or inward to vary the length of the support, a cutting device at each end of the support, and indicating 115 means for indicating the length to which the strip will be cut.

6. A strip cutting machine, comprising in combination a strip support having a flat 120 supporting surface for supporting the strip to be cut and having a positioning shoulder at one edge of the supporting surface which is curved in the plane of the supporting surface, said support comprising two end portions which are adjustably movable concentrically about the axis of curvature of 125 said shoulder for varying the length of said support, a gear wheel mounted between said portions of the support, a toothed bar linked to each of said portions of the support, said bars extending in engagement with opposite 130 sides of said gear, means for turning said

gear to move said portions of the support outward or inward, a hinged cover adapted to be turned down on to the strip resting on the support to hold the strip in position, and
5 a cutting device at each end of the support.

7. A strip cutting machine, comprising in combination a strip support curved to correspond to the shape of the strip to be cut
10 and including an end portion which is adjustably movable in the direction of the curvature of the support for varying the length of the support, and a cutting device at each end of the support.

15 8. A strip cutting machine, comprising a base having a bearing plate, a strip sup-

port mounted on said bearing plate and having a positioning shoulder at one edge of the supporting surface of the support curved in the plane of the supporting sur- 20 face, said support including an end portion which is adjustably movable concentrically about the axis of curvature of said shoulder for varying the length of the support, a curved slot in said bearing plate, projections 25 extending from said movable portion of the support into said slot to guide said portion in its movement, and a cutting device at each end of the support.

In testimony whereof I have hereunto set 30 my hand.

ELIAS ISRAEL.