May 19, 1931. G. C. HOHEIN 1,806,252

SEWING MACHINE ATTACHMENT

Filed Nov. 26, 1928

Fig. 1.

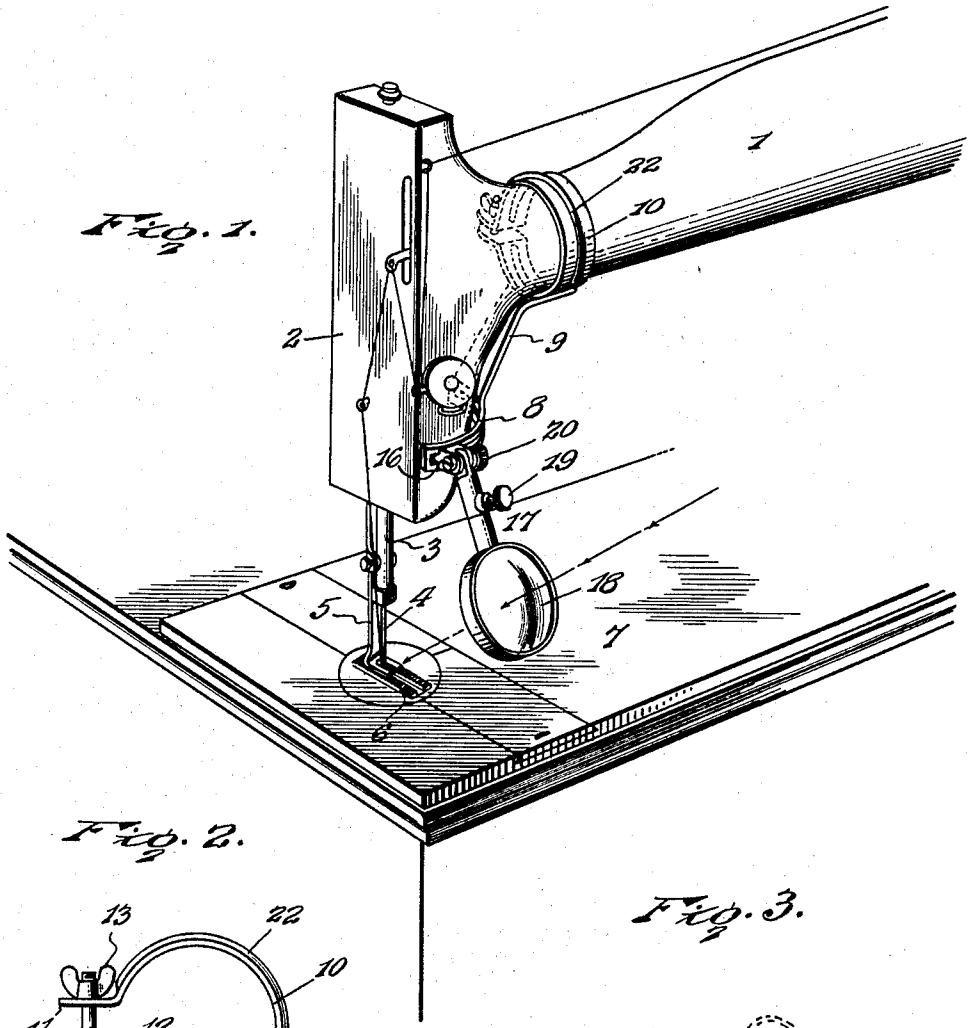


Fig. 2.

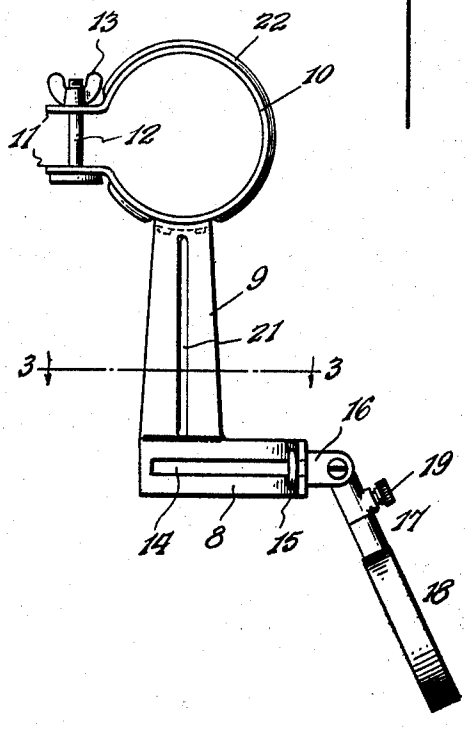
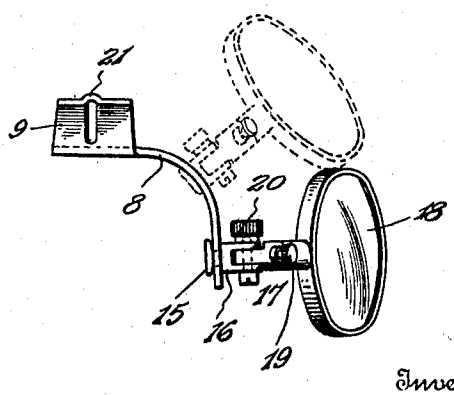


Fig. 3.



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UNITED STATES PATENT OFFICE

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SEWING MACHINE ATTACHMENT

Application filed November 26, 1928. Serial No. 322,013.

This invention has for its object the provision of an attachment for sewing machines by the use of which eye strain will be relieved. Users of sewing machines are compelled to watch the progress of the cloth past the needle very closely in order to attain the desired neatness and completeness in the work, and the eye is consequently subjected to considerable strain which is not only fatiguing but is apt to seriously and permanently impair the sight. To avoid this condition, I have provided a simple device which may be very easily applied to a sewing machine and by which a magnifying glass will be supported in position to enable the operator to view the work without eye strain and which glass may be easily adjusted to a position at the side of the sewing machine head whereby to facilitate threading of the needle. The invention is illustrated in the accompanying drawings and will be hereinafter fully set forth.

In the drawings:

Figure 1 is a perspective view of a portion of a sewing machine having the attachment in position thereon;

Fig. 2 is a side elevation of the attachment removed from the sewing machine, and

Fig. 3 is a horizontal section on the line 3—3 of Fig. 2.

In the drawings, the reference numeral 1 indicates a portion of a sewing machine arm carrying a head 2 at its end in which head is mounted a needle bar 3, carrying a needle 4, and a presser foot 5 which cooperate with a feed plate 6 in the table or work rest 7, all of these parts being of the usual or any preferred construction and operating in the usual manner.

In carrying out the present invention, there is provided a band or basal strip 8 which is shaped, as shown in Figs. 1 and 3, to conform to the sewing machine head and fit closely against the side and front of the same. At or near the end of this band which is presented to the side of the sewing machine head an arm 9 rises therefrom, and this arm is secured at its upper end to a clamp ring or collar 10 which is adapted to encircle the sewing machine arm and is equipped with laterally disposed lugs 11 through which is fitted a set bolt 12 carrying a wing nut 13 which by being turned home against the adjacent lug 11 will bind the ring or collar firmly about the arm. The arm 9, as will be noted upon reference to Fig. 1, is inclined somewhat away from the basal band so that it may fit closely to the sewing machine head as the latter merges into the sewing machine arm and this formation holds the basal band close to the head, as will be understood. A longitudinal slot 14 is formed in the band 8 and receives a headed stud 15 which projects to the front of the band and carries a fork or yoke 16 in which is pivoted a lens holder 17 consisting of telescopically connected members, the lower of which carries a lens 18. It will be noted that the members of the lens holder are held together by a set screw 19 which will permit a longitudinal adjustment or extensibility of the lens holder and also permits a rotation of the lower member in the upper member so that the lens may be disposed at the proper angle to suit the user of the machine. The pivotal connection between the lens holder and the yoke 16 is also equipped with a set nut 20 whereby the lens holder may be secured at any desired angle to the yoke or may be turned upwardly against the sewing machine head and secured in such upturned position if its use is not desired. In Fig. 1, the lens is shown arranged in position for use during the sewing operation, and it will be noted that it is disposed at the front of the sewing machine head. When threading of the needle is necessary, the lane is shafted to the side of the sewing machine head, as indicated by the dotted lines in Fig. 3, so that it will be focused upon the eye of the needle and thereby magnify the same so that the threading may be easily accomplished. The stud 15 may be threaded into the rear end of the yoke 16 and thereby caused to firmly engage the band 8 so that it will remain in any position upon the band in which it may be set without requiring the use of any other securing devices. The upstanding arm 9 and the band 8 are preferably integral and stamped from a sheet metal blank and the arm is provided with a medial longitudinal

bead or rib 21 which will impart strength to the arm and resist any tendency of the same to buckle. For the same reason, a circumferential bead or rib 22 is formed in the clamp collar or ring 10.

It will be seen at once that the attachment is exceedingly simple in construction and may be very easily applied to any sewing machine and very easily removed therefrom when its use is not desired. The supporting elements fit closely to the head and arm of the sewing machine so that they do not interfere with the progress of the work nor with the movements of the operator's arm in controlling the travel of the work past the needle.

Having thus described the invention, I claim:

1. An attachment for sewing machines comprising a band conforming to a sewing machine head to lie close to the front and side of the same, a lens carried by the band, a supporting arm rising from the band at the side of the sewing machine head, and a clamp collar at the upper end of said arm to encircle the sewing machine arm and thereby support the entire device.

2. An attachment for sewing machines comprising a band conforming to a sewing machine head to lie at the front and the side of the same, a lens carried by said band and adjustable along the same to set at the front or the side of the head, a supporting arm rising from the band at the side of the head and extending outwardly therefrom, and a clamping collar fixed to the upper end of said supporting arm to encircle a sewing machine arm and provided with means for securing it about said arm.

In testimony whereof I affix my signature.

GEORGE C. HOHEIN. [L. S.]