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I. F. WEBB

SEWING MACHINE LIGHT

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Fig. 2.

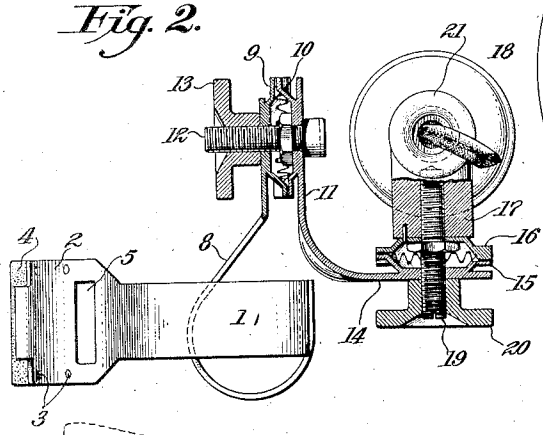


Fig. 1.

WITNESSES

Godfrey Pecina

John F. Heinz

INVENTOR

Irving F. Webb

BY

Henry J. Miller

ATTORNEY

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IRVING F. WEBB, OF ELIZABETH, NEW JERSEY, ASSIGNOR TO THE SINGER MANUFACTURING COMPANY, OF ELIZABETH, NEW JERSEY, A CORPORATION OF NEW JERSEY.

SEWING-MACHINE LIGHT.

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This invention relates to lighting attachments for sewing machines and has for an object to provide a lighting attachment which may be quickly and easily applied to any of the usual types of sewing machines without special provision on such machines for receiving a lighting fixture, and which may be so applied as to locate the lighting element in any desired position or at any desired level adjacent the sewing machine frame; either in rear, in front, above or beyond the free end of the sewing machine bracket-arm.

A further object of the invention is to provide a sewing machine lighting attachment which will operate satisfactorily and without necessitating the frequent renewal of lamp bulbs.

The invention, in its preferred embodiment, comprises a lighting bracket including a base or supporting element, preferably formed of a sheet-metal strip bent in the form of a U, the legs of the U being slotted to receive a non-metallic flexible elastic strap equipped with a buckle or equivalent fastener, whereby the bracket may be strapped tightly in any desired position on a sewing machine bracket-arm or standard; the strap being sufficiently elastic to maintain its grip upon the supporting object without loosening up. The lighting element is preferably adjustably swivelled to an angle-piece which, in turn, is adjustably swivelled to a spring arm carried by the base element. The spring arm is the principal element provided for absorbing or cushioning the vibration of the sewing machine frame and so supporting the light that the latter may float steadily even when the sewing machine is operated at high speeds and is subjected to severe vibration.

In the accompanying drawings, Fig. 1 is a plan view of the lighting attachment applied to the rear side of a sewing machine standard; the lamp and socket being disposed substantially parallel to and in rear of the sewing machine bracket-arm. Fig. 2 is a rear elevation of the attachment, partly in section.

In the embodiment of the invention chosen for the purpose of the present disclosure, 1 indicates the base or supporting member of the lighting bracket. This base is preferably formed from a strip of rather stiff spring metal bent to a U-shape with the free ends of the legs of the U flared outwardly in opposite directions to form feet 2 to which are preferably secured as by rivets 3, 3, the friction-pads 4, 4, of leather, rubber, cork or similar friction material. The feet 2, 2, of the base-member 1 are apertured or slotted at 5, 5, to receive the flexible non-metallic strap 6 of leather, canvas or other thin flexible strip material having elastic properties. The strap 6 is preferably equipped with a friction grip buckle 7 whereby the strap may be tightly stretched and secured circumferentially of a sewing machine standard or bracket-arm to hold the feet 2 tightly against the wall of said standard or arm.

Rigidly secured to the base member 1 as by spot welding, riveting, or other suitable means, is one end of a flat spring arm 8 bent to the form of an inverted (?). The other end of the arm 8 has spot welded or otherwise rigidly connected thereto a radially fluted disk 9 meshing flatwise with a similar disk 10 rigid with one arm 11 of an angle-piece. A pivot screw 12 passes through the arms 8, 11, and disks 9, 10, and a thumb-nut 13 affords provision for tightening the parts together in any desired position of adjustment of the angle-piece about the screw 12 as a pivot. The meshing, radially fluted disks 9, 10, prevent relative slippage of the arms 8, 11 when the nut 13 is tightened.

The other arm 14 of the angle-piece also has fixed thereto a radially fluted disk 15 which is similar to the disk 10 and meshes with a companion disk 16 fixed to the lateral boss 17 on the tube 18. A pivot screw 19 is threaded into the boss 17 and passes through the disks and the arm 14; a thumb-nut 20 serving to clamp the disks together in the desired position of adjustment.

The tube 18 is threaded at its opposite ends to receive the insulating bushing 21 and nipple 22 supporting the usual socket 23 carrying the electric lamp 24 and reflector 25. The conductor cord 26 passes through the tube 18 and nipple 22 to the socket.

The pivot screws 12 and 19 are disposed transversely to one another, thereby affording universal adjustment for the light relative to the member 1.

When the support 1 is strapped to a sew-

ing machine standard or bracket-arm subjected to severe vibration, the flat spring-arm 8 is sufficiently resilient both flatwise and edgewise due to the curved form of such arm, to permit the lighting element to float free of destructive vibration. The base member 1 also affords a certain amount of resiliency when, as shown, it is made of a strip of spring metal. The friction pads 4 and strap 6 also partially absorb or reduce the intensity of the vibration transmitted to the member 1. The elastic properties of the non-metallic strap will cause it to maintain its grip upon the sewing machine standard or bracket-arm without slipping or loosening up.

By virtue of the use of a flexible and somewhat elastic strap, as described, in conjunction with a friction grip buckle separated from the support 1, an operator may tightly stretch and secure the strap around a straight or non-tapered column, as well as around a tapered column. Moreover, the friction pads 4, 4, will prevent slippage of the device on a tapered column, such as the horizontal part of a sewing machine bracket-arm.

Having thus set forth the nature of the invention, what I claim herein is—

1. A lighting bracket comprising a support in the form of a metallic strip bent intermediate its ends to form a U, the legs of the U being apertured and reversely bent adjacent their extremities to provide outwardly directed feet, friction pads secured to said feet, a flexible strap passing through the apertures in and enclosing the ends of said feet and adapted to be tightened in endless form around a supporting object, and a lighting element carried by said support.

2. A lighting bracket comprising a U-shaped supporting member, a resilient arm secured at one end to the U-shaped member and curved to extend between the legs of the U-shaped member, and a lighting element carried by said resilient arm.

In testimony whereof, I have signed my named to this specification.

IRVING F. WEBB.