

H. HAUDENSCHILD.
OIL SHIELD.
APPLICATION FILED MAY 5, 1910.

973,114.

Patented Oct. 18, 1910.

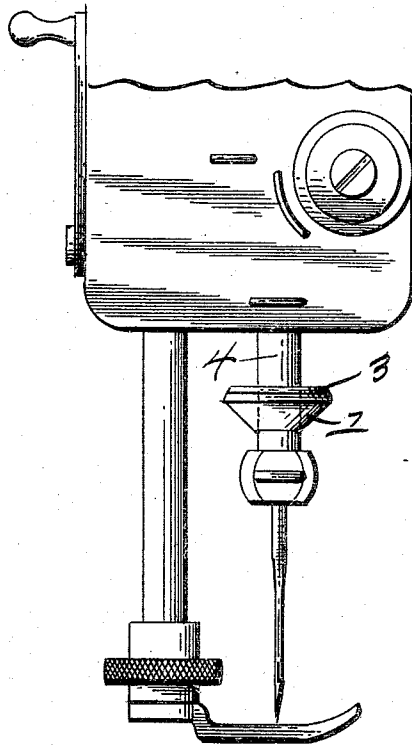


Fig. 1,

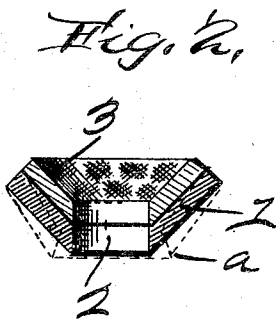


Fig. 2,

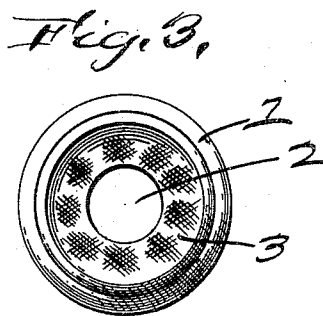


Fig. 3,

Witnesses,
E. O. Miller
A. P. Meke

Inventor,
H. Haudenschild
By Carl H. Keller atty.

UNITED STATES PATENT OFFICE.

HARRY HAUDENSCHILD, OF TOLEDO, OHIO, ASSIGNOR OF ONE-HALF TO GEORGE C. SMITH, OF TOLEDO, OHIO.

OIL-SHIELD.

973,114.

Specification of Letters Patent.

Patented Oct. 18, 1910.

Application filed May 5, 1910. Serial No. 559,496.

To all whom it may concern:

Be it known that I, HARRY HAUDENSCHILD, citizen of the United States, residing at Toledo, in the county of Lucas and State of Ohio, have invented certain new and useful Improvements in Oil-Shields; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to new and useful improvements in oil shields and it has particular application to the needle-bar of a sewing machine, the object of the invention being to provide a simple, inexpensive device capable of ready and instantaneous attachment upon the needle-bar of a sewing machine to hold the oil from creeping to the needle.

In using sewing machines it is necessary to keep the moving parts including the needle-bar well oiled. The film of oil always present upon the needle-bar has a tendency to creep and accumulate upon the needle, so that frequently a fine and expensive piece of material, especially white material, is damaged if not quite ruined by the oil accumulating upon the needle and then being deposited upon the material.

To overcome this difficulty and to provide an oil shield which is capable of instant and universal attachment to needle-bars of various diameters my invention is constructed, and the same embodies the novel combination and arrangement hereinafter shown, described and claimed.

In the accompanying drawings, illustrative of my invention, Figure 1 is an elevation showing the oil shield in position upon the needle-bar of a sewing machine; Fig. 2 is an enlarged sectional elevation of the shield; and Fig. 3 is a plan view of the same.

Referring to the drawings, 1 indicates a cup-shaped elastic washer, constructed of soft rubber and adapted to surround and firmly grip the needle-bar 4 of a sewing

machine, the perforation 2 in the washer being made slightly smaller in diameter than that of any needle-bar of the various sewing machines on the market. Thus the cup-shaped washer, owing to its elasticity, is capable of attachment to any needle-bar whether of large or small diameter.

3 is a facing of absorbent material, such as felt, the same covering the entire upper face of the cup-shaped washer and when the washer is placed upon the needle-bar the facing of absorbent material will also surround the needle-bar and serve to absorb any oil that may creep down the needle-bar. It is found in actual use that even after prolonged operation of a sewing-machine upon which the device has been placed that the washer remains firmly in position upon the needle-bar. The washer is preferably made cone-shaped, as shown, although the same may be hemispherical or of other shape to form a cup-shaped receptacle around the needle-bar. In Fig. 2, in dotted lines *a* the elastic washer is shown spread open or expanded, the form which it assumes while it is being placed upon the needle-bar.

Thus it is seen that the invention is simple, inexpensive and entirely effective for the purpose for which it is constructed.

Having described my invention, what I claim and desire to secure by Letters Patent, is:—

1. An elastic oil shield for the needle bar of a sewing machine adapted to surround and be held thereto by its elasticity, and a facing of absorbent material for said shield.

2. An elastic, cup-shaped oil shield for the needle bar of a sewing machine adapted to surround and be held thereto by its elasticity, and a facing of absorbent material for said shield.

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

HARRY HAUDENSCHILD.

Witnesses:

MERTON L. BAMER,
CARL H. KELLER.