

(No Model.)

A. W. ROGERS.
ABRADING COVERING FOR BUFFERS.

No. 407,245.

Patented July 16, 1889.

Fig. 1.

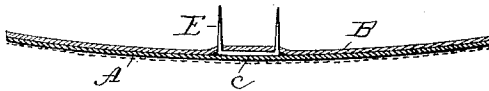


Fig. 2.

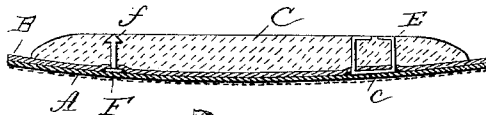
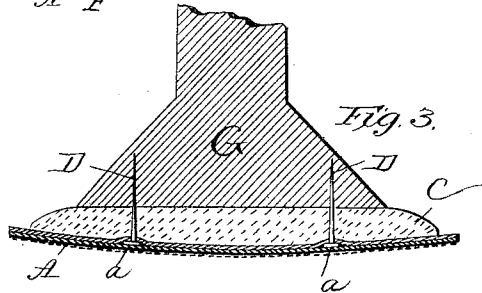


Fig. 3.



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UNITED STATES PATENT OFFICE.

ANDREW W. ROGERS, OF BEVERLY, MASSACHUSETTS, ASSIGNOR TO SIDNEY W. WINSLOW, TRUSTEE, OF SAME PLACE.

ABRADING-COVERING FOR BUFFERS.

SPECIFICATION forming part of Letters Patent No. 407,245, dated July 16, 1889.

Application filed December 7, 1888. Serial No. 292,923. (No model.)

To all whom it may concern:

Be it known that I, ANDREW W. ROGERS, of Beverly, in the county of Essex and State of Massachusetts, have invented a new and useful Improvement in Abrading-Coverings for the Foot of Buffers; and I do hereby declare that the following is a full, clear, and exact description of the same.

My invention hereinafter described relates to abrading-coverings for the foot of buffers used in finishing the soles of boots or shoes. I have contemplated providing an improved covering for such buffers, with its attachments all complete in itself, as an article of manufacture and sale, and ready to be applied to buffers already in common use, or to buffers that by the aid of this invention may be made of simpler form than those now used. It is known to those skilled in the art that these abrading-coverings used to finish the soles of boots or shoes wear rapidly and require to be frequently changed, and it is important that they should be cheaply made and adapted to be quickly and easily applied and removed.

Heretofore such coverings have been held to the foot of the buffer in various ways—for example, by glue—as in the Winslow buffer, shown in the United States patent, No. 190,174, of 1877, or by a central bolt running through the spindle and having its head bearing upon a countersunk portion of the working-face of the covering and extending through the shank or spindle, as in the United States patent to Stevens, No. 256,481, of 1881, of which a further example of head bearing upon such countersunk portion is shown in the United States patent to Riedell, numbered 384,076, of 1888, in these forms the covering being clamped between the head or its extensions and the foot. Another mode of holding the covering to the foot is by means of a pouch form, shown in the United States patent of Rodgers, numbered 227,839, of 1880. As compared with these forms and others of the same general kind, my invention includes, in addition to cheapness and facility of removal, a clear and continuous edge of the abrading-covering, the possibility of a continuous working-surface adapted to all parts of the boot or shoe and one which does not require

any complicated construction in connection between the foot or pad and the spindle on which it is carried.

My invention is an improvement upon an abrading-covering having countersunk portions on the under side of said covering, in combination with projections which serve as fastenings to connect it to the foot inserted from said under side at suitable intervals and adapted to connect the covering with the foot or pad, which covering is described in an application of Sidney W. Winslow and Freeman H. Winslow of even date herewith, of which the serial number is 292,932. It consists in the arrangement of these fastening projections with their heads underneath the re-enforcement and between it and the abrading-sheet, whereby a continuous abrading-surface is formed.

The invention is shown in the accompanying drawings, in which Figure 1 represents the covering in section with the stiff projections. Figs. 2 and 3 show sections of the covering attached to the foot.

In the drawings, A represents the abrading-covering, which is made in the ordinary manner of a disk of sand-paper or equivalent material, and is preferably slightly convex on its working-face. These covers are usually re-enforced with a backing of strong paper glued to the sand-paper, and the whole is molded while it is soft into the proper shape, which is that of a concavo-convex disk. In order to provide connections to hold this abrading-covering A to the pad C, several conditions are to be considered: first, that the connections shall be easily applied or detached; second, that they shall not materially impair the working-face of the covering, and, third, that they shall hold the covering to the foot securely against turning without risk of tearing the paper or other material of which the disk is composed. I have fulfilled all these conditions by the forms of connections herein shown, which have heads or corresponding parts located between the re-enforcement and the abrading-disk, whereby they are held to the disk at suitable points without marring the working-face and without liability to turn on the foot.

The projections or fastening devices may be in the form of ordinary tacks D, having flat heads *a*, or in the form of bridge-tacks E, having bridge portions *c* between the prongs.

5 The points of these are inserted through the re-enforcement B, with the heads or bridges lying between the re-enforcement and the abrading-covering. This arrangement may be effected by first inserting the tacks through the

10 re-enforcement and then gluing and pressing the parts together in a suitable mold. The heads or bridges will form in a proper mold indentations in the re-enforcement, and the

15 abrading-face will be left smooth and uninterrupted.

In Fig. 2 I have shown the covering thus provided with tacks applied to a foot G. The bridge-tack E is held to the foot by turning down the ends or prongs. I have also shown

20 in this figure a latch-tack F, having a flanged point *f*, which is self-holding in the felt, of which the foot is usually composed; or it may project through the foot and be held by a catch.

25 Fig. 3 shows ordinary tacks applied by pressing through the foot and into the shank-extension G. All of these forms may be easily applied and removed, and do not require any material cutting or large perforations in the

foot, leaving it when in work in condition to act uniformly on all of its surface.

I claim as my invention—

1. An abrading-covering for buffers, comprising an abrading-piece having a re-enforcing piece, and fastenings for connecting it to the foot, said fastenings being inserted

35 through the said re-enforcement and having their heads or bridges resting between the covering and the re-enforcement, substantially as described.

2. An abrading-covering for buffers, comprising an abrading-piece having a re-enforcing piece formed with indentations and fastenings for connection with the foot, said fastenings being inserted through said re-enforcement, the heads thereof resting in said

40 indentations and between the covering and the re-enforcement, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ANDREW W. ROGERS.

Witnesses:

SIDNEY W. WINSLOW,
FREEMAN H. WINSLOW.