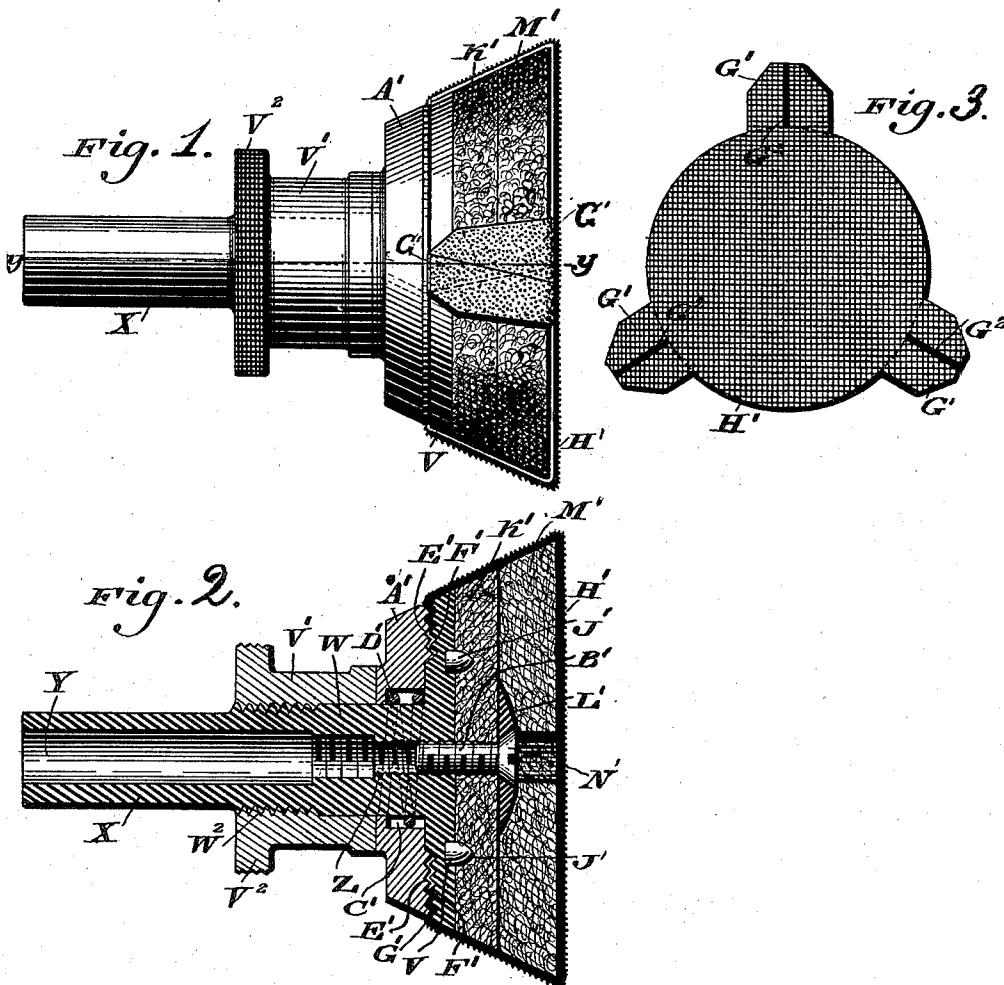


(No Model.)

W. B. KEIGHLEY.
BUFFER.

No. 577,860.

Patented Mar. 2, 1897.



WITNESSES:

O. F. Hagle,
L. Howille.

INVENTOR

William B. Keighley
BY *Alfred J. ...*

ATTORNEY.

UNITED STATES PATENT OFFICE.

WILLIAM B. KEIGHLEY, OF VINELAND, NEW JERSEY.

BUFFER.

SPECIFICATION forming part of Letters Patent No. 577,860, dated March 2, 1897.

Application filed June 13, 1896. Serial No. 595,442. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM B. KEIGHLEY, a citizen of the United States, residing at Vineland, in the county of Cumberland, State of New Jersey, have invented a new and useful Improvement in Buffers, which improvement is fully set forth in the following specification and accompanying drawings.

My invention consists of a novel construction of buffers especially adapted to be used in the manufacture of boots and shoes, although the same are capable of other uses, according to requirements.

It further consists of means for readily assembling and disconnecting the parts composing the buffer, whereby the cost of production is reduced to a minimum.

It further consists of a novel contour of or pattern for the buffing, cloth, paper, or other material which may be employed.

It further consists of novel details of construction, all as will be hereinafter set forth, and specifically pointed out in the claims.

Figure 1 represents a side elevation of a buffer embodying my invention, the same being especially adapted for finishing the tread of a shoe. Fig. 2 represents a longitudinal section on line *yy*, Fig. 1. Fig. 3 represents a plan view showing the contour of the emery-cloth or other abrading material employed.

Similar letters of reference indicate corresponding parts in the several figures.

Referring to the drawings, the buffer is formed of a disk or head *V*, which has a neck *W* of uniform diameter projecting therefrom.

X designates an extension projecting from said neck, a portion *W²* of which is threaded and adapted to be engaged by the nut *V¹*, which may be provided with a milled head *V²*, so as to enable the same to be readily manipulated, the bore *Y* of said extension *X* being adapted to engage a rotatable spindle or shaft when the buffer is in use.

Z designates a passage through the disk or head *V*, which is threaded for a purpose to be hereinafter described.

A' designates a collar or follower which is supported on the neck *W*, said follower having a recess *C'* therein, within which is contained the spring *D'*.

G' designates tabs which are attached to

the disk *H'*, of emery or other abrading material, the body of which latter, as will be understood from Fig. 3, being of substantially circular shape, said tabs being split at *G²* to enable the same to be folded or lapped over each other when the parts are assembled, as will be evident from Fig. 3.

It will be evident that, if desired, the split ends of the tabs may be secured together, thus making the same conform to the shape of a felt pad or holder.

J' designates pins or spurs which are attached to the head *V* and project into and engage the pad *K'*, the same having the pad *M'* secured thereto, and the washer *L'* held between said pads, which latter are cemented or secured together in any suitable manner, said pads being of conical shape.

N' designates a screw or bolt which passes through said washer *L'* and has a threaded portion which is adapted to engage the threaded passage *Z*, as will be evident from Fig. 2.

The operation of the buffer is as follows: The parts are shown in assembled position, and when the buffer is rotated the emery-cloth or other abrading material *H'* can be readily applied to the tread of a boot or shoe.

When it is desired to renew the emery-cloth, the nut or collar *V¹* is unscrewed away from the head *A'*, whereupon the spring *D'* will force the follower *A'* away from the head *B*, thereby enabling the tabs *G'* to be readily disengaged from the roughened or corrugated faces *E' F'*, and when one abrading device is worn out another can be substituted. The disks *K' M'* are prevented from improper rotation by the engagement of the spurs *J'* with the pad *K'*.

Especial attention is directed to the construction of the tabs *G'* with the split *G²*, since by this means the tabs are enabled to be lapped over each other when the parts are assembled, thereby presenting no projection or puckered surfaces to catch against the work when the buffer is being revolved and applied thereto. Emphasis is also laid upon the simplicity of my invention, since all the parts can be readily assembled and disconnected, and the liability of any of them getting out of order is reduced to a minimum.

Having thus described my invention, what

I claim as new, and desire to secure by Letters Patent, is—

1. A buffer consisting of a head with a neck, and an extension thereon, a follower on said neck with a recess surrounding the latter, a nut on a threaded portion of said extension bearing against said follower, a spring in said recess bearing against said follower and head, a pad secured to said head by a washer and screw, the latter bearing against said washer and engaging a threaded portion of said head, a second pad and a disk with tabs, the latter being held between said head and follower.
2. A buffer consisting of a head having a

threaded neck, a follower on said neck having a recess therein, a nut on the threaded portion of said neck bearing against said follower, a pad, means for holding said pad in contact with said head and for preventing improper movement thereof relative to said head, a disk embracing said pad and provided with split tabs held between said head and follower, and a spring in said recess bearing against said follower and head.

WILLIAM B. KEIGHLEY.

Witnesses:

JOHN A. WIEDERSHEIM,
E. HAYWARD FAIRBANKS.