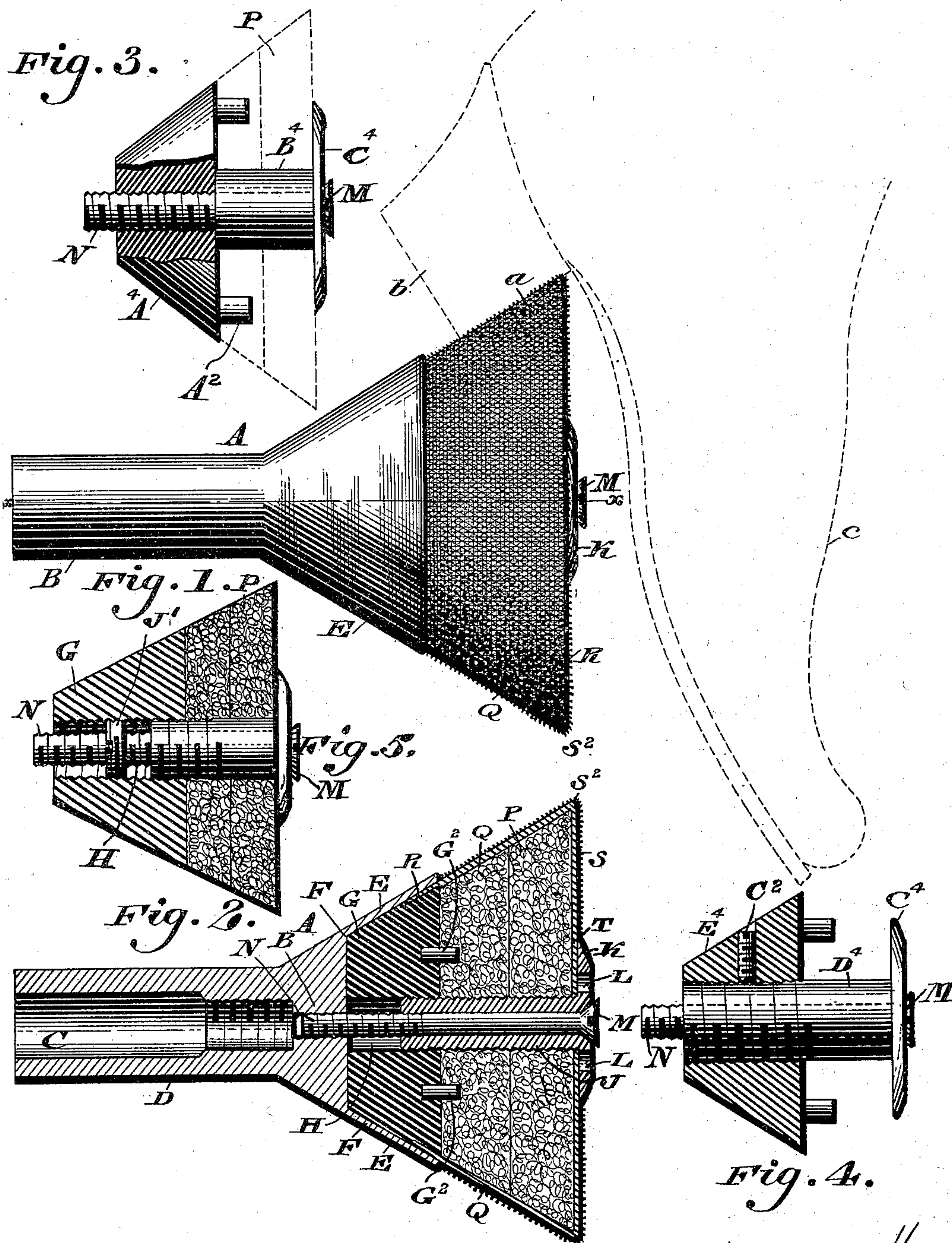


(No Model.)

W. B. KEIGHLEY.
SHOE BUFFER.

No. 604,051.

Patented May 17, 1898.



WITNESSES

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WILLIAM B. KEIGHLEY, OF VINELAND, NEW JERSEY.

SHOE-BUFFER.

SPECIFICATION forming part of Letters Patent No. 604,051, dated May 17, 1898.

Application filed November 23, 1897. Serial No. 659,559. (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 Shoe-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 for use in the manufacture of boots and shoes, although the same are capable of other uses according to requirements.

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

Figure 1 represents a side elevation of a buffer embodying my invention, the same being especially adapted for buffing the breasts of heels and shanks of boots and shoes in the process of manufacture, the figure showing also a portion of a shoe to which said buffer is applicable. Fig. 2 represents a longitudinal section on line $x x$, Fig. 1. Figs. 3, 4, and 5 represent side elevations, partly in section, of modifications.

Similar letters of reference indicate corresponding parts in the figures.

Referring to the drawings, first to Figs. 1 and 2, A designates a buffer especially adapted for finishing the breasts of shoe or boot heels as well as the shanks thereof, the same consisting of a head B, which is provided with a hollow extension D, the interior bore C of which is adapted to have a threaded portion and to engage a rotatable spindle or other actuating device.

F designates a conical or flaring flange which projects from the head B in opposite directions from the extension D, thereby forming a cup E, within which is placed the conical block G, which has a passage H therethrough, a portion of which is provided with screw-threads, which latter are adapted to engage the threaded sleeve J, which is provided with a head K, in which latter are the oppositely-located holes L for the application of a spanner or other wrench thereto.

M designates a screw or bolt which is adapted to be inserted into said sleeve J and is provided with a threaded end N, which engages an internally-threaded passage in the head B, the head K being in the present instance countersunk, so as to receive the head of the screw M.

P designates a cushion or pad, of felt, leather, or other similar material, which is of conical shape and is adapted to support a conical strip Q of sandpaper, emery-cloth, or other suitable abrading material, the same having a portion R, which is held between the extremity of the cup E and the block G when the parts are assembled.

S designates a disk, of sandpaper, emery-cloth, or similar abrading material, which is adapted to engage the outer face of the pad P, a portion T of said disk S being held between the head K and the contiguous portion of said pad, the latter being prevented from rotation relative to the block G by means of the pins or spurs G^2 common to said block and pad.

The pad P in the present instance is shown as composed of two disks or thicknesses of material, although this is of course not essential, it being noticed that when the same is placed in position contiguous to the block G it forms a continuation of the conical outline of the latter.

The operation is as follows: The parts are assembled by first placing the conical block G in position, after which the pad P is placed thereon, the same being held in proper position relative thereto by the spurs G^2 , as stated. The conical strip of sandpaper or similar material Q is then placed in position upon the pad P and also the disk S, after which the sleeve J is screwed into engagement with the internally-threaded portion of the block G, and finally all the parts are held in assembled position by means of the screw or bolt M, which is screwed into engagement with the head B. The buffer, assembled as described, can now be placed upon a rotatable spindle, and the same being rotated it will be evident that the edge S^2 upon being applied to the breast a of the heel b of a shoe c will readily and effectively clean the same and can furthermore penetrate into the angle between the junction of said heel B with the shank,

thereby readily and effectively cleaning or buffing the same.

In Fig. 3 the conical block A⁴ is shown as integral with the sleeve B⁴ and the loose washer C⁴ is employed, in which construction the top and bottom pieces of sandpaper are fastened simultaneously, said block being provided with the spurs or dowels A², which engage the pad P, which latter can be built up in sections, if so desired.

In Fig. 4 the washer C⁴ is loose, while the sleeve D⁴ is adjustable relative to the conical block B⁴, thus allowing different thicknesses of felt, leather, or rubber to be employed, a set-screw C² being employed to lock said sleeve in desired position.

The head K (seen in Fig. 2) may be replaced by a loose washer, if desired, as is evident.

In the construction seen in Fig. 5 the sleeve J^x is screwed into the threaded opening H, as has already been described; but I provide in addition a lock-nut J', which is adapted to permit the passage of the screw M and is screwed down into contact with the adjacent end of said sleeve J, thereby locking the latter and preventing rotation thereof.

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, a conical cup attached thereto, a block supported within said cup, a conical-shaped pad in contact

with said block, the latter and said head having a threaded passage therein, an exteriorly-threaded sleeve engaging the passage in said block, and a threaded bolt engaging the passage in said head, said sleeve having a head or washer thereon, in combination with suitable abrading material held on the side and base of said pad.

2. A buffer consisting of a conical pad, a block against which the same is held, a sleeve attached to said block, means for holding said pad in position relative to said block, an abrading device covering said pad, and means for holding said abrading device in position.

3. In a buffer, a conical cup, a conical block adapted to rest therein, a conical pad forming a continuation of said block, means for holding said pad on said block, and means for holding said block in position in said cup, in combination with suitable abrading material secured to said pad.

4. A buffer consisting of a pad, a block against which the same is held, a sleeve engaging said block, a lock-nut adapted to engage said sleeve, means for locking the latter, an abrading device covering said pad, and means for holding said abrading device in position.

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Witnesses:

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