

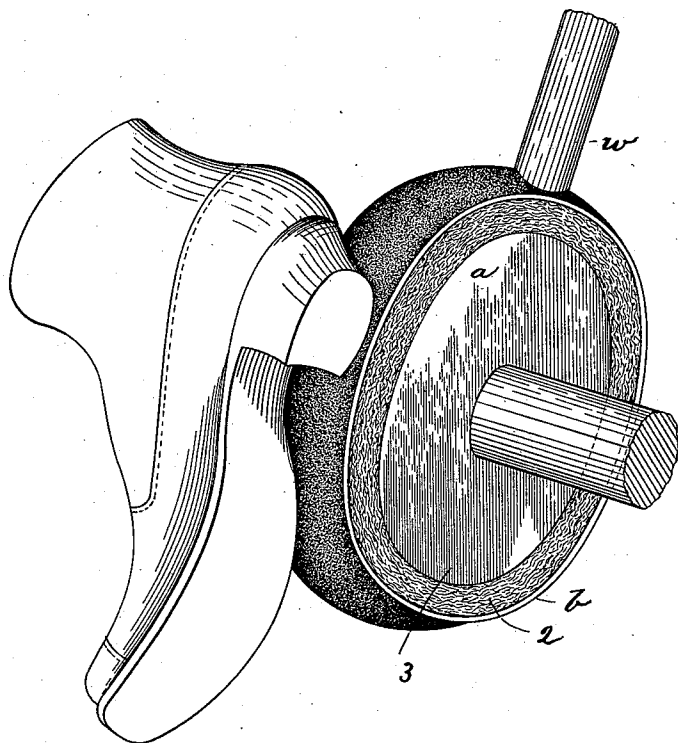
(No Model.)

W. F. SAMPSON

ART OF BURNISHING HEELS, &c., OF BOOTS, &c.

No. 466,429.

Patented Jan. 5, 1892.



Witnesses.

Lauritz N. Möller
Alice A. Perkins

Inventor.

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by Alvan Andren
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UNITED STATES PATENT OFFICE.

WINSLOW F. SAMPSON, OF SAUGUS, MASSACHUSETTS, ASSIGNOR, BY DIRECT AND MESNE ASSIGNMENTS, TO THE CROWN WAX HEEL MACHINE COMPANY, OF KITTERY, MAINE.

ART OF BURNISHING HEELS, &c., OF BOOTS, &c.

SPECIFICATION forming part of Letters Patent No. 466,429, dated January 5, 1892.

Application filed August 31, 1891. Serial No. 404,192. (No model.) Patented in Canada June 20, 1891, No. 36,862.

To all whom it may concern:

Be it known that I, WINSLOW F. SAMPSON, a citizen of the United States, and a resident of Saugus, in the county of Essex and State of Massachusetts, have invented new and useful Improvements in the Art of Burnishing Heels and other Parts of Boots or Shoes, (for which I have obtained Letters Patent in Canada, No. 36,862, dated June 20, 1891,) of which the following, taken in connection with the accompanying drawing, is a specification.

This invention has for its object to enable heels, sole-edges, and other parts of boots or shoes to be provided with a brilliant and durable wax finish at less expense for time and labor than by the methods now in use; and it consists as a whole in an improved method involving the following steps, viz.: first, scouring the heel or other parts to be burnished; secondly, inking or coloring the scoured surface, and, lastly, presenting the inked surface to a rapidly-moving emery abrasive surface coated with wax, the said abrasive surface having a comparatively fine texture like that of the emery-cloth of commerce, and being adapted to create sufficient friction when pressed against a heel to melt the wax coating, and thus gain access through said coating to the surface of the heel and exert a smoothing effect thereon, and at the same time force the wax into the fibers of the leather and leave it smoothly spread thereon, the result being the formation of a brilliant smooth waxed surface.

The accompanying drawing represents a perspective view of a wheel having a waxed emery-cloth surface, and a boot, the heel of which is presented to said surface.

In the drawing, *a* represents a wheel, which is adapted to be rapidly rotated by any suitable means and covered with a strip or band *b*, of cloth or other flexible material, to which is secured a coating of powdered emery, said strip or band constituting the well-known emery-cloth of commerce, such as is used for forming smooth surfaces on heels and other parts of boots or shoes. I desire to here remark, however, that I am not limited in the practice of my improvement, hereinafter described, to the use of the material known as

"emery-cloth," as any abrasive surface having a comparatively fine texture resembling that of emery-cloth and adapted to reduce a comparatively rough leather surface to a smooth condition—such as is produced by the action of emery-cloth—will come within the scope of my invention. The band *b* is preferably backed or directly supported by a cushion 2, of felt or other suitable yielding material, attached to the periphery of the rigid body 3 of the wheel.

The wheel above described does not differ, essentially, from buffing or scouring wheels now in common use for performing the second step of the operation of scouring heels preparatory to blacking and burnishing the same, it being the usual custom to first roughly scour the heel with No. 1½ sand-paper on a revolving scoured surface by the use of a wheel of substantially the construction here shown and described.

In carrying out my invention I coat the abrasive surface of a wheel *a*, of the construction above described, with a suitable wax of any of the kinds commonly used in wax-finishing heels, the wax coating being preferably applied by holding a stick *w* of wax in contact with the emery-cloth while the wheel is rotating until the surface of the emery-cloth is filled with the wax, the abrasive material being covered thereby. I then take a heel or other part of a boot or shoe, and after rough-scouring it I black the rough-scoured surface, using, by preference, ordinary burnishing-ink. After the ink has suitably dried I present the rough-scoured and colored surface to the waxed surface of the wheel *a* and press it lightly against said waxed surface. The result of this I believe to be the development of a sufficient degree of friction by the pressure against the abrading-surface to melt the wax-coating, and thus enable the abrading-surface to act on the rough-scoured surface of the heel and give it the desired smoothness, and at the same time force the wax into the fibers and form a firm, solid, durable, and brilliant waxed surface.

I am aware that it is not new to dye sole and heel edges and subsequently subject the same to the action of a waxed rapidly-moving

non-abrasive surface of cloth; but such does not constitute my invention.

My improved method has several advantages over that last described, the chief of which is the saving of time and labor, which I effect by waxing and smooth-scouring at one and the same operation, the emery-cloth-surfaced wheel being utilized both to smooth and burnish the heel, while heretofore it has always been considered necessary to smooth the heel by the emery-cloth wheel before the coloring and waxing operation. The chief novelty of my invention, therefore, resides in the simultaneous smooth-scouring and waxing of the heel or other part that has been previously only rough-scoured and inked or colored, thus avoiding one operation or handling.

Having thus fully described this my inven-

tion, I wish to secure by Letters Patent and claim—

The improvement in the art of burnishing the sole and heel edges and other parts of boots or shoes, which consists in first roughly scouring the part to be burnished, then inking the roughly-scoured surface, and simultaneously smooth-scouring and waxing the rough-scoured and inked part, substantially as described.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 26th day of August, A. D. 1891.

WINSLOW F. SAMPSON.

Witnesses:

ALBAN ANDRÉN,
ALICE A. PERKINS.