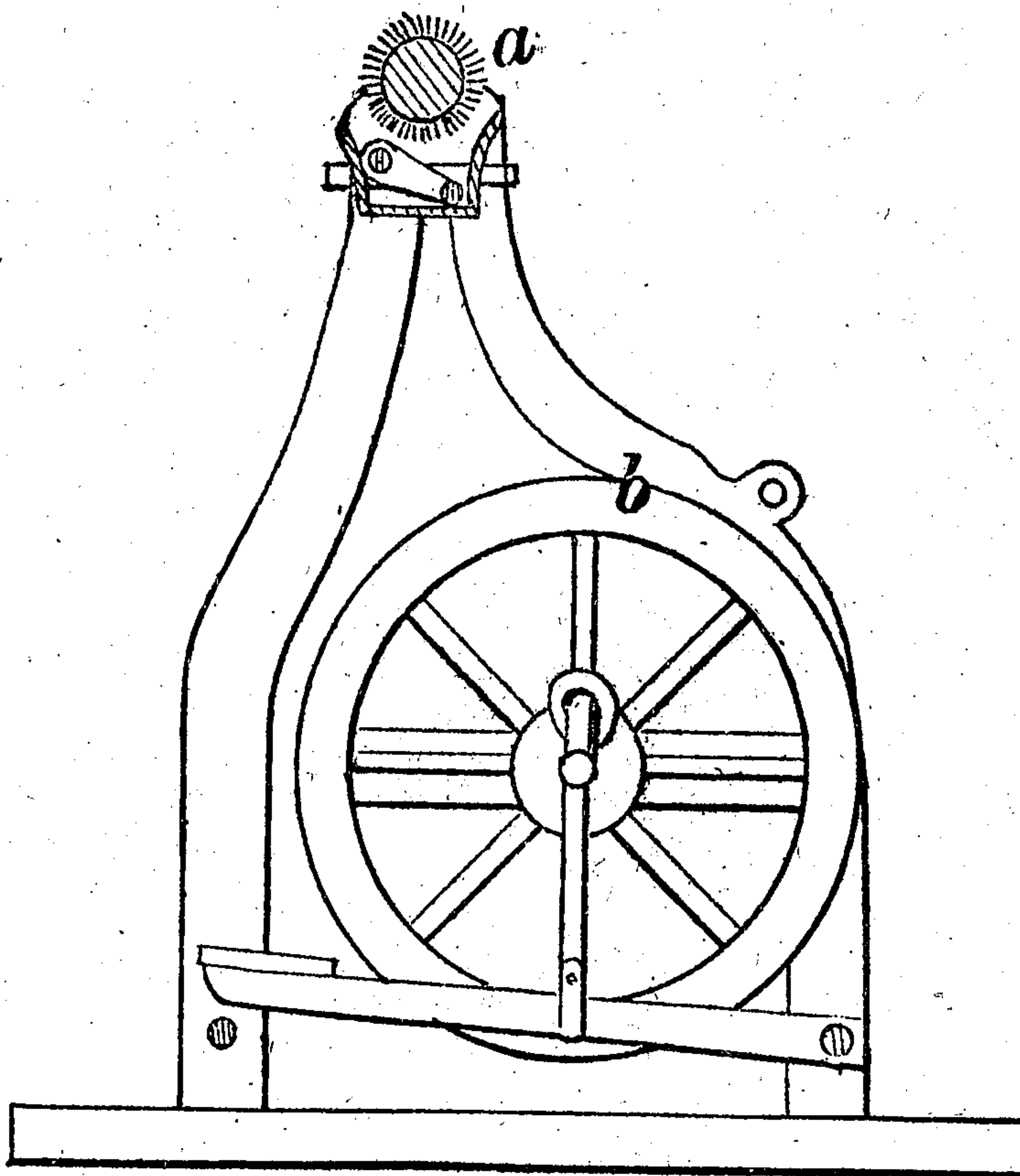


S. HORSLEY & E. H. JONES.

APPARATUS FOR CLEANING AND POLISHING BOOTS AND SHOES.

No. 36,408.

PATENTED SEPT. 9, 1862.



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# UNITED STATES PATENT OFFICE.

SAMUEL HORSLEY AND EDWARD HOBSON JONES, OF LIVERPOOL, ENGLAND.

IMPROVED APPARATUS FOR CLEANING AND POLISHING BOOTS AND SHOES.

Specification forming part of Letters Patent No. 36,408, dated September 9, 1862.

*To all whom it may concern:*

Be it known that we, SAMUEL HORSLEY and EDWARD HOBSON JONES, both of Liverpool, in the county of Lancaster, England, have invented new and useful improvements in apparatus for cleaning and polishing boots, shoes, and other coverings for the feet and for cleaning plate and other articles of domestic use; and we do hereby declare that the following is a full and exact description of the construction and operation thereof, reference being had to the accompanying sheet of drawings, making a part of this specification, and to the letters of reference thereon—that is to say:

Our invention relates to that class of machines in which the cleaning and polishing parts or apparatuses are made to rotate by treadle or other means; and it consists in constructing or making the apparatus for supplying the blacking, plate paste, powder, or other cleaning substance, respectively, to the said brushes or "buffers," with disks or rollers free to revolve on spindles, the said spindles in their continuation having fulcrums or cranks, so that they (the said disks or rollers) can be brought to bear on and give a supply to the said brushes or buffers; but when a supply has been given they will be removed automatically from actual contact.

The object is to give the necessary supply and no more.

In the accompanying sheet of drawings, which we will now proceed to describe, the same letters of reference are used to designate the same parts in all the views.

Figure 1 shows a perspective view of our improvements combined and arranged in a portable form, with treadle motion as the most suitable for general use; Fig. 2, a longitudinal elevation of the same; Fig. 3, a side elevation, also of the same; Fig. 4, a longitudinal elevation of detached plate-cleaning buffers and a brush fitted on a spindle suitable for use with the same frame-work and motion; Figs. 5 and 6, longitudinal elevations of our combined cleaning and polishing arrangements and vertical and longitudinal sections of both the disk and roller apparatus for supplying the cleaning substance, the spindles having fulcrum-joints; and Figs. 7 and 8 vertical and longitudinal sections of similar apparatus (for supplying the cleaning substance or material) with crank-spindles.

*a* represents the framing; *b*, the treadle-crank shaft; *c*, the foot-board; *d*, the driving-wheel; *e*, the band; *f*, the driving-pulley secured to the spindle or shaft *g*, which carries our improved cleaning and polishing apparatus, and may rest on bearings in the framing or on centers passed through the same; *h*, the continuous circular brush, which is made of suitable bristles for cleaning, blacking, and polishing, and marked, respectively, 1, 2, and 3; *i*, the plate-buffers, one of which, 4, applies the cleaning substance, the other, 5, completes the cleaning. The buffers, as here shown, have circular pieces of calico or other woven fabric bound together (not too tightly) by clamp-plates and bolts.

*j* is a flat board or plate running from one side frame to the other, and to which is attached the troughs or receptacles *l*, containing the cleaning substance; *m n*, the disks or rollers for supplying the brushes and buffers; *o*, the lever-spindles with fulcrum-joints *p*, attached to the troughs or receptacles *l*; *q*, the lever-spindles with cranks *r*. In the lever-spindle arrangement the disks or rollers will generally be partly among the cleaning substance when raised to give a supply; but in the crank-spindle arrangement the disks or rollers can be more readily lifted up and out of the said cleaning substance, and by this latter arrangement a less quantity of the cleaning substance will be used.

To clean boots, shoes, and other coverings for the feet, the operator simply requires to give motion by treadle or other means, depress the lever-spindles *o* or *q*, (as the case may be,) and supply the blacking, and then apply the article to be cleaned, say to the hard or cleaning brush 1, slide it along to receive the blacking from 2, and polish with 3. The same description explains the plate cleaning; but it is advisable to wash the articles before applying them to the buffers. We may here remark that the dust from the boot-cleaning part might injure the buffers, and vice versa, and it is for reason that we sometimes use them on separate spindles; but when they are both on one spindle or shaft, coverings of flexible or other material could be placed over the one not being used.

Having now described the nature and particulars of our said invention, and the mode of operating the same, we would have it dis-



tinctly understood that we do not confine ourselves to the exact proportions laid down in the drawings, nor to the use of metal, wood, or other material for the spindles and other parts of the apparatus, as these may be variously altered and combined without departing from the leading features of our invention. Neither do we confine ourselves to obtaining rotary motion by a treadle, as hand or other power could be employed. We would also have it understood that we do not claim, broadly, for circular rotating apparatus for cleaning and polishing such articles; nor for receptacles for containing the cleaning substance to be applied first to the apparatus and then to the articles, as various machines have been previously used for such purposes; but

What we claim is—

The combination, with the rotary brushes or buffers *h* and *i*, of the disks or rollers *n* and fulcrum and crank-lever spindles *o* and *p*, for supplying the cleaning substance or blacking from the troughs or receptacles *l*, substantially as herein described.

SAMUEL HORSLEY.

EDWARD HOBSON JONES.

Signed by the said SAMUEL HORSLEY and EDWARD HOBSON JONES, at Liverpool aforesaid, this 21st day of February, 1862, before us—

JOHN THOMSON KING,  
*Patent Agent, 4 Clayton Square, Liverpool, and*  
JOHN DAVIES,  
*Clerk to the said John Thomson King, residing at*  
*Liverpool, aforesaid.*