C. W. SCHELL.

SHOE SHINING APPARATUS.

APPLICATION FILED JULY 27, 1907

910,419.

Patented Jan. 19, 1909.

Fig. 1.

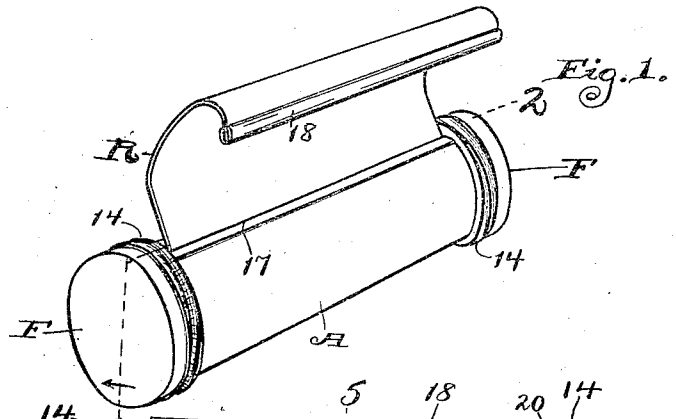


Fig. 2.

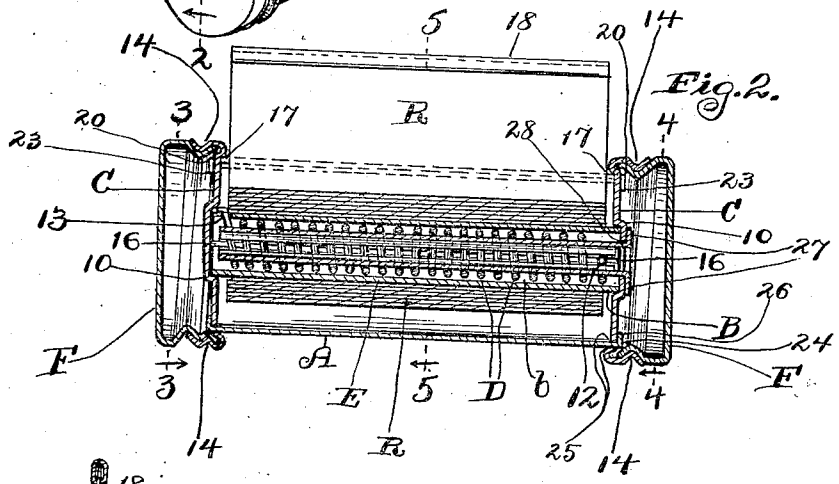


Fig. 5.

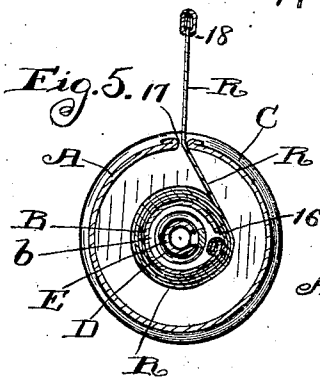


Fig. 3.

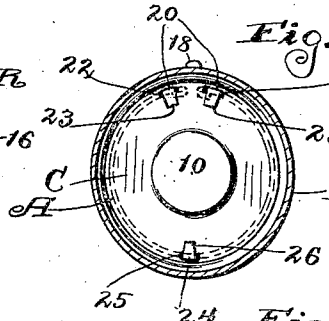


Fig. 4.

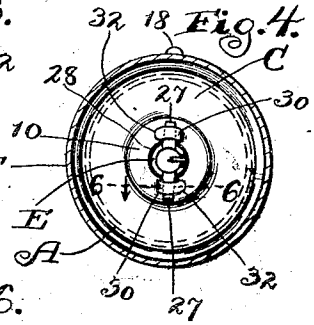
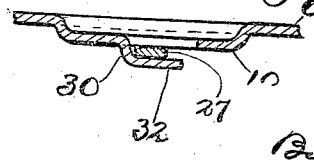


Fig. 6.



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UNITED STATES PATENT OFFICE.

CHRISTIAN W. SCHELL, OF CLEVELAND, OHIO, ASSIGNOR OF ONE-HALF TO CHARLES P. MATHEWSON, OF CLEVELAND, OHIO.

SHOE-SHINING APPARATUS.

No. 910,419. Specification of Letters Patent. Patented Jan. 19, 1909.

Application filed July 27, 1907. Serial No. 385,900.

To all whom it may concern:

Be it known that I, CHRISTIAN W. SCHELL, a citizen of the United States of America, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Shoe-Shining Apparatus; and I hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use the same.

This invention relates to improvements in shoe-shining apparatus, and pertains more especially to a shoe-shining device comprising not only a case inclosing a drum upon which a shoe-polishing cloth or band is wound, but a receptacle formed at one end of the case for receiving a dauber or paste-applying body or material instrumental in the application to the shoe to be shined of blacking or paste kept on hand in a receptacle formed at the other end of the case.

The primary object of this invention is to produce a simple and convenient shoe-shining apparatus which comprises a polishing band extending through a slot formed in a cylindrical case which incloses a winding drum to which the band is attached and which has bearing in the heads of the case.

Another object is to facilitate the assemblage of the component parts of the apparatus.

With these objects in view, and to the end of realizing other advantages hereinafter appearing, this invention consists in certain features of construction, and combinations of parts, hereinafter described and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view in perspective of shoe-shining apparatus embodying my invention, and in this figure the polishing band is partially withdrawn from the drum-inclosing case. Fig. 2 is a longitudinal section on line 2—2, Fig. 1, looking in the direction indicated by the arrow, except that Fig. 2 is drawn on a larger scale than Fig. 1. Figs. 3 and 4 are transverse sections on line 3—3, and line 4—4, respectively, Fig. 2, looking inwardly, except that in Figs. 3 and 4 the polishing band is shown wound up. Fig. 5 is a transverse section on line 5—5, Fig. 2, looking in the direction indicated by the arrow. Fig. 6 is a considerably enlarged section in detail on line 6—6, Fig. 4, looking in the direction indicated by the arrow.

Referring to the drawings, B indicates a winding drum which is hollow or chambered interiorly, as at *b*. The interior chamber *b* of the drum extends from end to end of the drum.

The drum is contained within and arranged centrally and longitudinally of an inclosing case which comprises a cylindrical sheet metal shell A which extends from end to end of the drum and is enough larger transversely than the drum to accommodate the winding upon the drum within the case of a polishing band R. The case also comprises two sheet metal heads C and C arranged at opposite ends respectively of the shell A and secured to or rendered rigid with the latter in any approved manner. Each head C is bulged outwardly centrally of the head, as at 10, to form a bearing for the adjacent end of the drum. Hence, the drum extends between and has bearing in both heads. A torsional spiral spring D is arranged within and extends longitudinally and from end to end of the chamber *b* of the drum. The spring D is coiled around a sheet metal barrel E which is arranged within and extends longitudinally of the drum B. The barrel E is enough smaller transversely than the drum B to freely accommodate the location of the barrel and the spring within the drum. The spring is attached at one end, as at 12, to the barrel and at its other end, as at 13, to the drum. The spring D acts to retain the band R wound on the drum B.

Each head C is provided with a laterally and outwardly projecting internally screw-threaded flange 14 extending circumferentially of the head, and a correspondingly externally screw-threaded receptacle F is screwed into the said flange. One of the receptacles F is used for holding shoe-blacking or paste (not shown) to be applied to the boot or shoe to be shined, and the other receptacle is used for holding a dauber-forming body or material (not shown) suitable for use in applying the blacking or paste to the boot or shoe. It will be observed therefore that the flanges 14 of the heads C constitute means instrumental in the attachment, to the case, of the receptacles employed in hold-

ing the blacking or paste and paste-applying body or material.

The shoe-polishing band R is wound on the drum B between the heads C, being attached at one end to the drum.

Preferably the surrounding wall of the chamber *b* of the drum is provided with a slot 16 which extends longitudinally and from end to end of the drum. The polishing band extends through the slot 16 and is attached or held in any approved manner to the drum interiorly of the drum where the band-attaching means are out of the way.

The shell A is provided with a slot 17 which extends longitudinally of the shell, and the band R extends through the said slot and is reinforced at its outer end by a sheet metal strip 18 to which the band is suitably attached, which strip extends transversely of the band.

Each head C is preferably attached to the shell A at the sides of the slot 17 by two lugs 20 which are formed upon the said shell and project laterally and outwardly from the shell through slots or perforations 22 formed in the said head at opposite sides respectively of the said slot and bent over or clenched, as at 23, at the outer side of the said head. Each head C is also preferably secured to the shell A at a point diametrically opposite the slot 17 by a lug 24 formed on the said shell and projecting laterally and outwardly from the shell through a slot or perforation 25 formed in the said head and bent over or clenched, as at 26, at the outer side of the head.

The barrel E is shiftable endwise, and means whereby the spring D may be readily placed under greater or less tension are provided and preferably comprise two arms 27 formed upon one end of the barrel E at opposite sides respectively of the barrel, which arms extend through a hole 28 formed in and centrally of the adjacent head C and project at the outer side of the said head radially of the barrel in opposite directions respectively and the said head is provided at its outer side with lugs 30 arranged to so engage the arms 27 as to prevent running down of the spring. That is, each arm 27 is normally engaged by that side edge of the lug 30 which faces opposite to the direction in which the barrel is turned in placing the spring under additional tension, and the said lug also extends over the outer side of the said arm, as at 32, as shown very clearly in Fig. 6. When, therefore, the tension of the spring is to be reduced the barrel E is first turned by manual power applied to the arms 27 in the direction required to remove the arms from under the arm-overlapping portions 32 of the lugs 30, whereupon the said barrel is shifted endwise far enough and in the direction required to remove the arms 27 outwardly from the lugs 30 far enough to accommodate turning of the barrel in either direction, and when the spring has been placed under the desired tension the arms 27 are again returned into their normal position relative to the said lugs. The barrel E is small enough diametrically to render it capable of being inserted into the drum B through the opening 28 in the respective head C.

It will be observed that the barrel E is preferably shorter than the chamber *b*, and the spring D is attached to the barrel in suitable proximity to the arms 27 and attached at its other end to the drum, as already indicated, and instrumental in holding the barrel in its normal position endwise.

What I claim is:—

1. In shoe-shining apparatus, a winding drum provided interiorly with a chamber which extends longitudinally of the drum; a drum-inclosing case comprising a shell which extends longitudinally and circumferentially of the drum and is provided with a slot extending longitudinally of the shell, said case also comprising heads closing the ends of the shell and supporting the drum and one of the said heads being provided centrally with an opening; a polishing band extending through the aforesaid slot and operatively connected with the drum; a barrel arranged within and longitudinally of the chamber of the drum and provided with an arm extending through the aforesaid opening, and a spiral spring coiled around the barrel and attached at one end to the barrel and at the other end to the drum, which spring acts in the direction required to retain the band wound on the drum, and the last-mentioned head being provided at its outer side with a lug arranged to prevent movement of the aforesaid arm in the direction required to permit running down of the spring.

2. In shoe-shining apparatus, a winding drum provided interiorly with a chamber which extends longitudinally of the drum; a drum-inclosing case comprising a shell which extends longitudinally and circumferentially of the drum and is provided with a slot extending longitudinally of the shell, said case also comprising heads closing the ends of the shell and supporting the drum and one of the said heads being provided centrally with an opening; a polishing band extending through the slot in the shell and operatively connected with the drum; a barrel arranged within and longitudinally of the chamber of the drum and shiftable endwise toward the outer end of the aforesaid opening, said barrel being provided with an arm extending through the said opening and projecting at the outer side of the opening over the outer side of the last-mentioned head, and a spiral spring coiled around the barrel and attached at one end to the barrel adjacent the last-mentioned head and at the other end to the drum, which spring acts to rotate the drum in the direc-

tion required to retain the band wound on the drum, and the last-mentioned head being provided at its outer side with a lug projecting over the outer side of the arm and arranged to prevent movement of the arm in the direction required to permit running down of the spring.

In testimony whereof, I sign the foregoing specification, in the presence of two witnesses.

CHRISTIAN W. SCHELL.

Witnesses:
C. H. DORER,
VICTOR C. LYNCH.