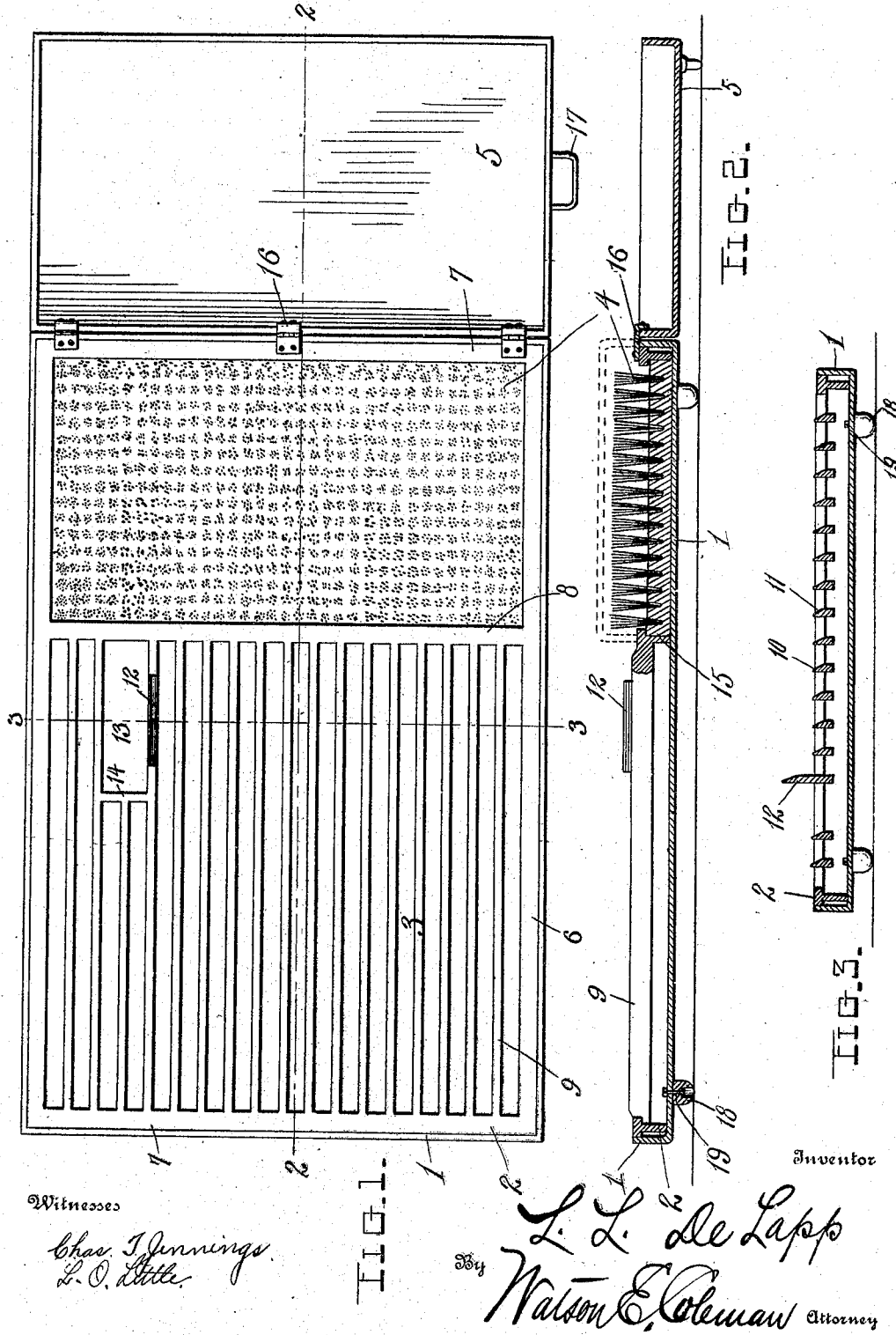


L. L. DE LAPP.
SHOE CLEANER.
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899,515.

Patented Sept. 29, 1908.



Witnesses

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FIG. 1.

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LAWSON L. DE LAPP, OF BROOKINGS, SOUTH DAKOTA.

SHOE-CLEANER.

No. 899,515.

Specification of Letters Patent.

Patented Sept. 29, 1908.

Application filed January 20, 1908. Serial No. 411,717.

To all whom it may concern:

Be it known that I, LAWSON L. DE LAPP, a citizen of the United States, residing at Brookings, in the county of Brookings and State of South Dakota, have invented certain new and useful Improvements in Shoe-Cleaners, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to a combined door mat and shoe cleaning device, and it consists of the novel features of construction and the combination and arrangement of parts hereinafter described and claimed.

The object of the invention is to provide a device of this character which will be attractive in appearance, strong and durable, very effective for the purpose intended, and convenient and easy to manipulate and clean.

The above and other objects of the invention are attained in its preferred embodiment, illustrated in the accompanying drawings, in which

Figure 1 is a plan view of my improved combined door mat and shoe cleaner showing the cover of its brush mat thrown open; Fig. 2 is a vertical longitudinal section showing the cover in its open position in full lines and in its closed position in dotted lines; and Fig. 3 is a vertical transverse section taken on the plane indicated by the line 3—3 in Fig. 1.

The invention comprises a rectangular pan or receptacle 1 in which is removably arranged an open frame or body 2 containing a shoe cleaning grate 3 and a brush mat 4, the latter being adapted to be protected by a cover 5 which is hinged to one end of the pan. The frame or body 2 is preferably cast in a single piece and consists of side bars 6 and end bars 7 and an intermediate cross-bar 8, each of said bars 6, 7, 8 being of T-shaped in cross-section, as seen in Figs. 2 and 3. The cross-bar 8 divides the body or frame 2 into large and small rectangular sections, the former of which contains a plurality of parallel cleaning bars 9 which form an open grate. The bars 9 extend longitudinally and their ends are formed integral with the bars 7, 8; they are of less height or depth than said bars, as seen in Fig. 3, but their upper edges project slightly above the top surfaces of the bars 6, 7, 8, and they are beveled, as indicated at 11. By constructing and arranging the cleaner bars in this manner it will be seen that a person may readily scrape the mud from his shoes by rubbing them across the

beveled projecting upper edges of said bars but, in order to enable the shank of the shoe to be effectively scraped, I provide, at a suitable point in the grate 3, a shank cleaner 12. The latter is formed upon one of the bars 9 by enlarging it so that it projects a suitable distance above the remaining bars 9, as shown in Fig. 3. In order to prevent this shank cleaner bar from becoming clogged with mud, I omit a portion of the bar 9 immediately in front of it to provide an enlarged space 13, the short bar 9 being united by a short cross-bar 14 to the two adjacent bars 9, as will be seen upon reference to Fig. 1.

The mat 4 is arranged in the small frame or section formed by the cross-bar 8 and, while it may be of any suitable form and construction, it is preferably so made that it projects a suitable distance above the upper surface of the bars 6, 7, 8 and so that its edge projects under the overhanging flanges of said bars 6, 7, 8 in order that the mat will be effectively retained in the frame or body 2, as will be understood upon reference to Fig. 2. When the mat is constructed with this projecting flange 15 around its bottom edge it is inserted in the frame or body 2 by first placing it in the pan 1 adjacent to one end and then placing the said frame or body over it. The cover 5 is rectangular in shape and has a surrounding flange which is connected at one end by hinges 16 to the end bar 7 of the body 1. Said cover is the full width of the pan and its length is slightly greater than the width of the mat 4 so that the free end of the cover, when the latter is closed, rests upon the top of the cross-bar 8. For the purpose of enabling the cover to be readily swung open or closed by the foot, I provide, upon its front side or end, a projecting U-shaped bracket or loop 17 beneath which the toe of the foot may be readily placed so that when the foot is elevated the cover may be swung either open or closed. For the purpose of protecting the floor, carpet or other surface upon which the pan 1 rests, and for the further purpose of preventing the pan from slipping while the device is being used, I preferably provide, upon its bottom, four or more feet 18 of rubber or the like. The feet 18 are arranged, preferably, adjacent to the four corners of the pan and are in the form of semi-spherical bodies which are secured to the pan by bolts 19 as seen in Fig. 2.

The construction, use, and many advantages of the invention will be readily under-

stood from the foregoing detailed description, taken in connection with the accompanying drawing. It will be observed that by constructing the body or frame 2, as shown, and
5 arranging it in the pan or receptacle 1, it will be almost impossible for any dirt to be carried over the floor or its coverings since it will all be caught by the pan. The construction of the grate 3 is such that the mud may be
10 easily removed from the shoes by scraping them across the bars 9 and the shank cleaning bar 12; and small particles of dirt and dust may be then removed from the shoes by rubbing them upon the brush mat 4. When
15 the device is used out of doors the cover 5 will effectively protect the mat and keep it dry and clean. The provision of the foot piece or bracket 17 upon the cover enables it to be readily opened and closed by the foot.
20 The peculiar construction of the frame or body 2 renders it comparatively inexpensive and, at the same time, exceedingly strong and durable. It may also be conveniently removed from the pan and the mat for all
25 cleaning purposes.

Having thus described my invention, what I claim is

30 1. A device of the character described comprising a pan, a removable frame or body in the same having at one end an open grate consisting of longitudinally-extending clean-

ing bars, one of the latter being enlarged to provide a shoe shank cleaner, a brush mat arranged at the other end of the frame or body, a cover hinged to one end of the body and
35 adapted to swing over the mat, and a foot piece projecting from said cover.

2. A device of the character described comprising a rectangular pan, cushioning feet upon the bottom of the latter, a frame or
40 body removably arranged in the pan and consisting of side, end, and intermediate bars of T-shape in cross-section, longitudinally-extending cleaner bars formed integral with the intermediate T-bar and one of the end T-bars,
45 one of said bars being enlarged to provide the shoe shank cleaner and the bar immediately in front of the latter being shortened, a brush mat arranged in one end of the frame or body and having a flange around its bottom to
50 project under the flanges of the T-bars of said frame or body, a flanged cover for the mat hinged to one end of the body, and a foot piece or loop projecting from the cover, substantially as described.
55

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

LAWSON L. DE LAPP.

Witnesses:

E. W. RUDEHE,
CARRIE SEATON.