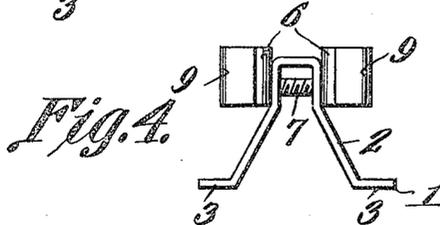
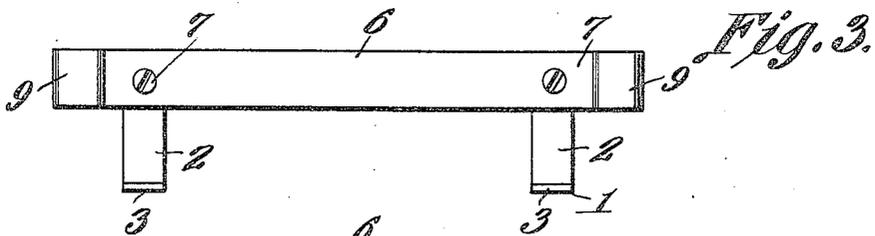
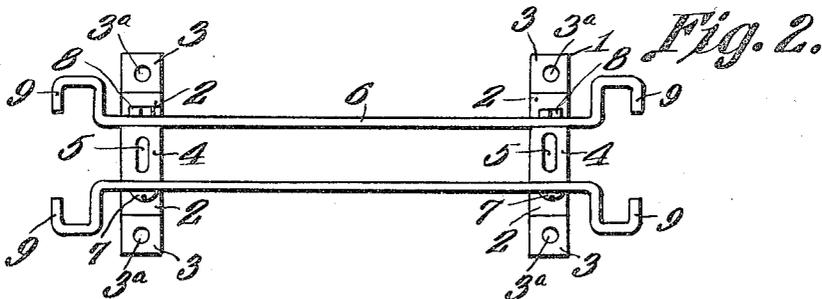
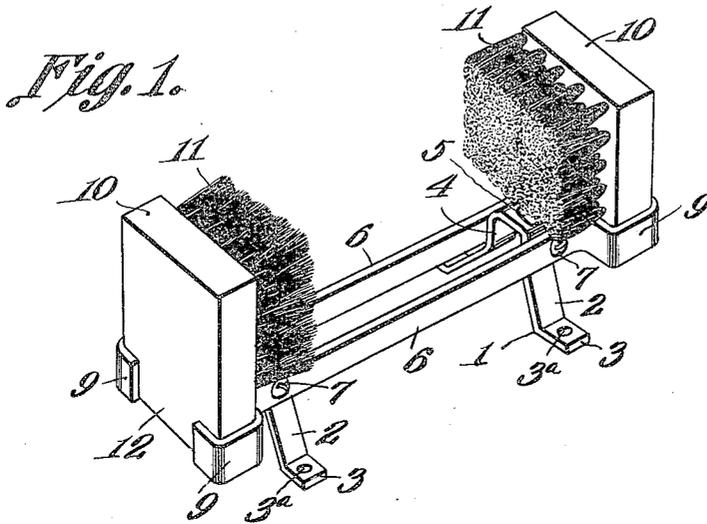


B. A. LAKE.
SHOE CLEANER.
APPLICATION FILED FEB. 1, 1913.

1,069,884.

Patented Aug. 12, 1913.



Witnesses

J. P. Tomlin
S. Willard

B. A. Lake,
Inventor

by *C. Snow & Co.*
Attorneys

UNITED STATES PATENT OFFICE.

BERTUS A. LAKE, OF BIG PRAIRIE, OHIO.

SHOE-CLEANER.

1,069,884.

Specification of Letters Patent. Patented Aug. 12, 1913.

Application filed February 1, 1913. Serial No. 745,755.

To all whom it may concern:

Be it known that I, BERTUS A. LAKE, a citizen of the United States, residing at Big Prairie, in the county of Holmes and State of Ohio, have invented a new and useful Shoe-Cleaner, of which the following is a specification.

The device forming the subject matter of this application is a shoe cleaner and one object of the present invention is to provide a device of the type above mentioned comprising scraper bars which exercise three functions, the scraper bars constituting means for connecting the supports, the scraper bars exercising their obvious function as scrapers and further, constituting means for gripping the attrition elements or brushes.

Another object of the invention is to provide a shoe cleaner comprising a frame which is transversely yieldable to grip the brushes.

Another object of the invention is to provide a shoe cleaner in which a single set of elements is employed for the double function of connecting the scraper bars with the supports and for adjusting the space between the scraper bars, whereby the scraper bars will be made effective to grip the brushes.

It is within the scope of the invention to improve generally and to enhance the utility of, devices of that type to which the present invention appertains.

With the above and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of invention herein disclosed can be made within the scope of what is claimed without departing from the spirit of the invention.

In the drawing:—Figure 1 shows the invention in perspective; Fig. 2 is a top plan of the brush supporting frame, the brushes being removed; Fig. 3 is a side elevation of the frame shown in Fig. 2; and Fig. 4 is an end elevation of the frame.

In carrying out the invention there is provided a pair of arched, resilient supports 1, the supports 1 including diverging arms 2 terminally provided with laterally extended feet 3. The bends 4 of the supports 1 are provided with openings 5. The bends 4 of the supports 1 lie between parallel, re-

silient scraper bars 6. Bolts 7 extend through the bends 4 of the supports 1 and through the scraper bars 6, the ends of the bolts 7 being provided with nuts 8 which bear against one of the scraper bars. At their ends and beyond the supports 1, the scraper bars 6 are laterally extended, to form U-shaped sockets 9.

Attrition elements are held in the sockets 9 and preferably are in the form of brushes, each brush comprising a back 10 and bristles 11; although the attrition element may be of any desired form. The lower ends of the back 10 are extended as at 12 beyond the bristles 11 and are gripped in the sockets 9.

By rotating the nuts 8, the arms 2 of the supports 1 may be sprung together, and thus the space between the scraper bars 6 may be adjusted, so that the U-shaped sockets 9 will grip the lower ends 12 of the back 10 of the brushes. Thus, the brushes are held firmly in place. The resiliency of the supports 1 is enhanced by reason of the fact that the supports, as shown at 5, are perforated in their bends 4.

The scraper bars 6 constitute means for removing dirt from the sole of the shoe, they serve as connections between the supports 1, and they serve as grips adapted to hold the brushes. The bolt and nut connections 7—8 exercise two functions in that they constitute means for assembling the supports 1 with the scraper bars 6 and constitute, also clamping means for springing the arms 2 of the supports 1 together, so that the sockets 9 may grip the ends 12 of the backs 10 of the brushes.

The frame shown in Figs. 2, 3 and 4, preferably is fashioned from metal throughout.

Having thus described the invention, what is claimed is:—

1. In a device of the class described, spaced supports; scraper bars connecting the supports; and an attrition member held between the ends of the scraper bars.

2. In a device of the class described, spaced scraper bars; a yieldable support located between the scraper bars; an attrition member held between said scraper bars; and a clamping device uniting the scraper bars with the support.

3. In a device of the class described, spaced scraper bars provided at their ends with opposed sockets; arched resilient sup-

ports located between the bars; and clamping devices uniting the supports with the bars.

4. In a device of the class described,
5 spaced bars having their ends extended in opposite directions to form sockets, arched; resilient supports having their bends disposed between the bars, and perforated at their bends; bolt and nut structures extended through the bars and through the supports,
10 the bolt and nut structures constitut-

ing means for compressing the supports to adjust the space between the sockets; and a brush held in the sockets.

In testimony that I claim the foregoing 15 as my own, I have hereto affixed my signature in the presence of two witnesses.

BERTUS A. LAKE.

Witnesses:

R. R. STERLING,
B. C. STERLING.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
