

N. DUPUIS.
SHOE CLEANER.
APPLICATION FILED JULY 30, 1912.

1,044,762.

Patented Nov. 19, 1912.

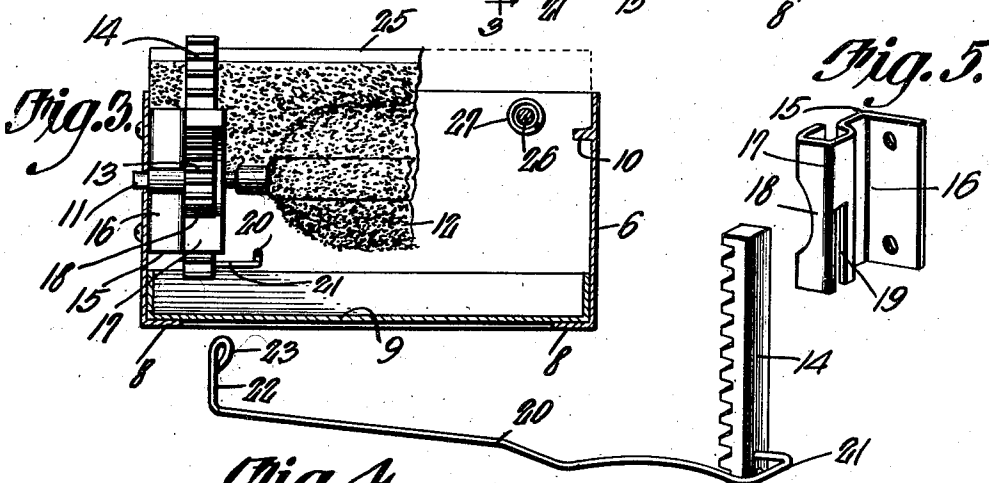
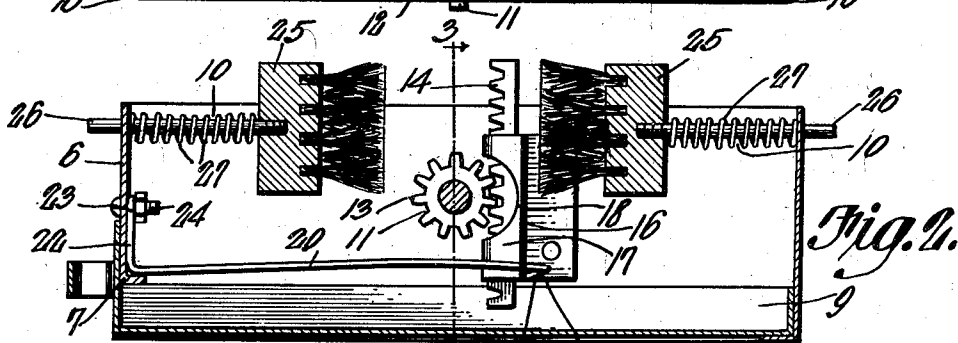
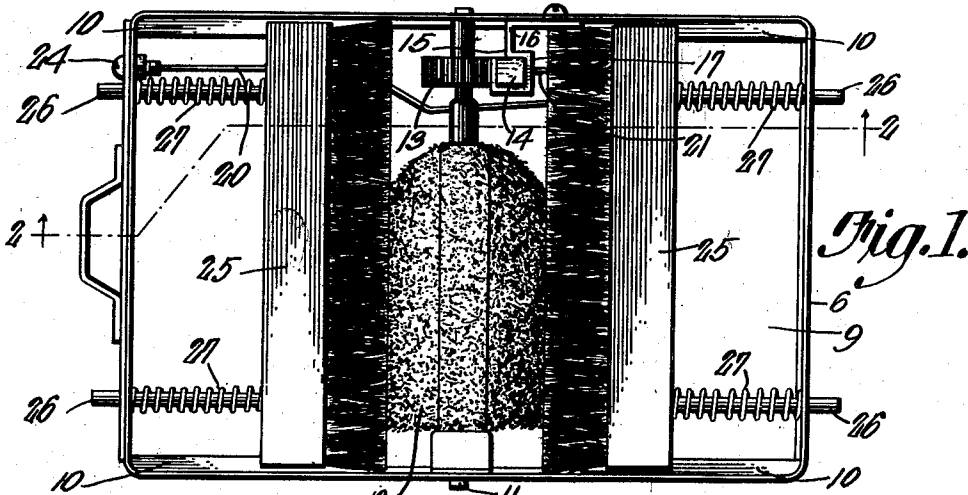


Fig. 4.

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UNITED STATES PATENT OFFICE.

NOEL DUPUIS, OF ABERDEEN, WASHINGTON.

SHOE-CLEANER.

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To all whom it may concern:

Be it known that I, NOEL DUPUIS, a citizen of the United States, residing at Aberdeen, in the county of Chehalis and State of Washington, have invented certain new and useful Improvements in Shoe-Cleaners, of which the following is a specification.

This invention relates to shoe cleaners, such as are adapted to supplant the customary door mat.

The present invention aims to provide an improved shoe cleaner which will serve to effectively clean mud, dust, dirt and the like from the sole and sides of a shoe in a convenient and efficient manner.

It is also the object of the present invention to provide a shoe cleaner of simple, compact and inexpensive construction, and to generally improve devices of this character.

With the foregoing 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 the invention herein disclosed can be made within the scope of what is claimed, without departing from the spirit of the invention.

The invention has been illustrated in its preferred embodiment in the accompanying drawings, wherein like reference characters have been employed to denote corresponding parts, and wherein—

Figure 1 is a plan view of the shoe cleaner. Fig. 2 is a sectional view taken on the line 2—2 of Fig. 1. Fig. 3 is a sectional view taken approximately on the line 3—3 of Fig. 2. Fig. 4 is a perspective view of a rack and its spring which are employed in carrying out the present invention. Fig. 5 is a perspective view of the guide for the rack.

Referring specifically to the drawings, the present shoe cleaner embodies a rectangular frame 6 of convenient size, which is preferably constructed of sheet metal, although the same may be constructed of any suitable material. The frame 6 is provided with a lower opening 7 in one end thereof and is provided with inner flanges 8 at the lower edges of its sides and ends.

A rectangular pan or drawer 9 is adapted to enter the opening 7 and slide on the flanges 8 to form the bottom for the frame

and for the purpose of catching the mud, dust, dirt and the like, brushed from the shoes, as will hereinafter appear. This frame 6 is also provided with a pair of tracks 10 at each end projecting inwardly from the sides, adjacent their upper edges.

Intermediate the ends of the frame is arranged a transverse shaft 11 which is journaled through the sides of the frame and on which is mounted a brush cylinder 12. On the shaft 11 adjacent one end thereof, is mounted a spur gear 13 which meshes with a vertical treadle rack 14. This rack 14 is carried by the corresponding side of the frame, by means of a plate 15 which is bent to form an angle 16, one flange of which is secured to the said side of the frame and the other flange of which is bent to form a guide 17 in which the rack is mounted. A portion of the guide 17 is cut away as designated by the numeral 18 in order to receive the spur gear, so that the spur gear and rack may intermesh with each other, and the guide 17 is also provided with a downwardly opening slot 19 opposite the cut-away portion 18.

A wire spring 20 has one end thereof secured to one end of the frame, the free end 21 thereof being bent backward and being secured to the rack 14 so as to work in the slot 19, the end 22 which is secured to the end of the frame being bent angularly or being upturned to lie against the end of the frame and having an eye 23 engaged by a bolt 24 passing through the end of the frame. The spring 20 has an upward tension, so that normally, the rack 14 will be forced upwardly. The guide 17 and the spring 20, as well as the rack 14 are arranged above the drawer 9, so as not to hinder the withdrawal of the drawer or the insertion thereof within the frame.

A brush 25 is arranged transversely in each end of the frame and has its ends slidably engaging the corresponding pair of tracks 10, the bristles of the brushes projecting toward the brush cylinder 12 and the backs being arranged outwardly. A pair of stems 26 project from each of the backs of the brushes 25 adjacent their ends and pass slidably through the corresponding end of the frame. Coiled wire compression springs 27 are arranged on the stems 26 and in being compressibly disposed between the brushes and the ends of the frame, tend to yieldingly press the brushes against the

brush cylinder 12, the bristles of the brushes tending to enter the bristles of the cylinder 12.

The bristles of the brushes and the brush cylinder are constructed of comparatively stiff material, so as to effectively remove mud, dust, dirt and the like from the shoe and also for purpose of wear.

In use, the frame is preferably secured to the floor of a porch, step or the like outside of the threshold, or in any convenient position. A person may then clean his shoes, one at a time, by placing the heel of one shoe on the treadle rack 14 and then placing the sole of the shoe upon the brush cylinder 12 and between the brushes 25, the brushes 25 yielding to receive the shoe. Then by depressing the rack 14, the brush cylinder 12 is given a rotary movement, such as will remove all mud, dust, dirt and the like from the sole of the shoe, and when the shoe is removed, the spring 20 will return the rack 14 to normal position, for a new operation. The sides of the shoe are cleaned by the brushes 25, as will be apparent, the brushes 25 being yieldingly pressed against the brush cylinder 12 and removing all dust, dirt and the like, from the sole and sides of the shoe.

From the foregoing, taken in connection with the drawings, the advantages of the present shoe cleaner will be apparent, and it will be apparent that the objects aimed at have been attained in a satisfactory manner, the present shoe cleaner providing a desirable one for the purposes for which it is designed.

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

1. A shoe cleaner embodying a frame, a shaft journaled therein, a brush cylinder on the shaft for cleaning the sole of a shoe, a pair of brushes mounted in the frame and yieldingly pressed against the sides of the brush cylinder for cleaning the sides of a shoe, and a treadle at one end of the brush cylinder and operatively connected to the said shaft for actuating same.

2. A shoe cleaner embodying a rectangular frame having inner tracks along its sides, a transverse shaft journaled through the sides of the frame intermediate its ends, a brush cylinder on the shaft, transverse brushes slidably mounted on the said tracks at the sides of the said brush cylinder, a pair of stems projecting from the back of each brush and passing through the corresponding end of the frame, coiled wire compression springs on the said stems to yieldingly press the brushes against the sides of the brush cylinder, and a treadle carried by one side of the frame and operatively connected to the said shaft for actuating same.

3. A shoe cleaner embodying a frame, a shaft journaled therethrough, a brush cylinder on the shaft, a pair of brushes mounted in the frame and yieldingly pressed against the sides of the brush cylinder, a spur gear on the shaft, a guide secured to one side of the frame, and a spring pressed treadle rack mounted in the guide and meshing with the said gear.

4. A shoe cleaner embodying a rectangular frame, a transverse shaft journaled through its sides, a brush cylinder on the shaft, a pair of brushes mounted in the frame and yieldingly pressed against the sides of the brush cylinder, a spur gear on the shaft adjacent one end, an angle iron plate having one flange secured to the side of the frame adjacent the spur gear and having its free flange bent into a guide, a portion of the guide being cut away to receive the spur gear, and a downwardly opening slot being provided in the guide, a treadle rack mounted in the guide and meshing with the said spur gear, and a spring secured to the frame and having its free end secured to the rack and working in the said slot.

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

NOEL DUPUIS.

Witnesses:

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