(No Model.)

G. E. EGGERT.

DOOR MAT.

No. 424,867. Patented Apr. 1, 1890.

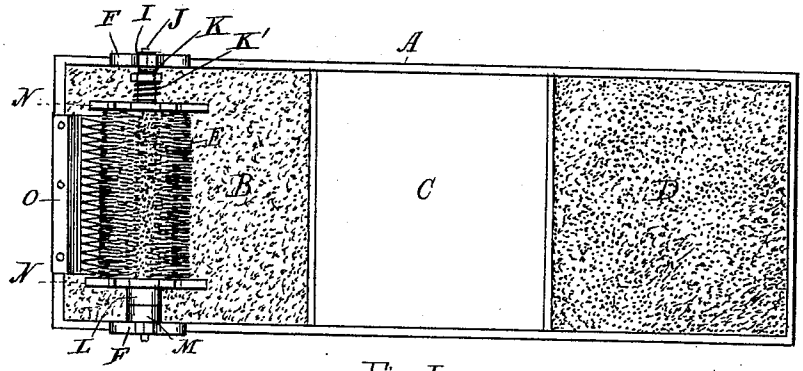


Fig. I.

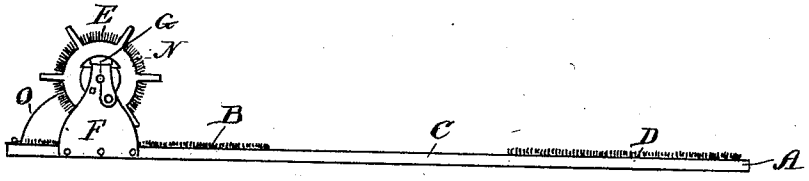


Fig. II.

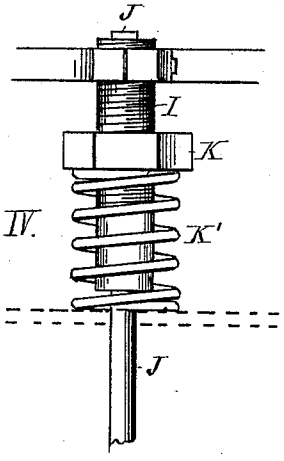


Fig. IV.

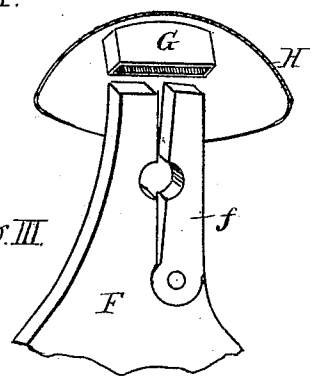


Fig. III.

WITNESSES:

A. S. Millar.

L. M. Adams.

INVENTOR:

Geo. E. Eggert.

By O. J. Bailey

Attorneys.

N. PETERS, Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

GEORGE E. EGGERT, OF ARGO, NORTH CAROLINA.

DOOR-MAT.

SPECIFICATION forming part of Letters Patent No. 424,867, dated April 1, 1890.

Application filed December 4, 1889. Serial No. 332,491. (No model.)

To all whom it may concern:

Be it known that I, GEORGE E. EGGERT, of Argo, in the county of Nash and State of North Carolina, have invented a new and useful Improvement in Door-Mats, which improvement is fully set forth in the following specification and accompanying drawings, in which—

Figure I is a top view of my improved door-mat. Fig. II is an end view of the device; Fig. III, one of the standards in which the rotary brush is journaled, and the cap which clamps the top of the standard when the rotary brush is introduced; and Fig. IV, a detail view of the coiled spring and nut which regulate the friction on the rotary brush.

My invention relates to improvements in door-mats; and its object is to provide a simple, durable, and efficient device whereby the sides and upper parts, as well as the soles of the shoes and other foot-gear, may be quickly and thoroughly cleansed.

Referring to the accompanying drawings, A designates a rectangular frame, which may be made of wood or iron. If desired, it may consist of a single section B. Additional sections C D may be used to advantage. The end sections may be occupied by similar mats, while the central section, which is designed to lie directly in front of a door, may be furnished with a rubber or wire mat. When arranged in this manner, the mats may be removed and changed whenever desired without removing the frame. A rotary brush E, made of bristles or other suitable material, is journaled in standards F, which are attached to the frame A. In order to provide means whereby the brush may be easily removed and replaced, the tops of the standards consist of two jaws, one of which *f* is hinged to the other. (See Fig. III.) When in use, the brush is secured in its place by a cap G, which is surmounted by a hood H to protect the journals from sand or dust. A stationary sleeve I is attached to one of the standards and encircles the axle J. This sleeve is threaded for a nut K, which regulates the pressure of the coiled spring K′. A friction-block L, of rubber or other suitable material, is attached to the other end of the rotary brush and engages a similar block M, which is fastened to the adjoining standard. By this means the proper degree of friction may be maintained, so that the brush may not revolve too freely. Spur-wheels N are mounted on the ends of the rotary brush, which may be rotated by one foot while the other is being cleansed. All parts of the brush are thus brought into action, or, if desired, it may be held in a fixed position by the same means. The recesses at the sides of shoes and in front of the heel-taps may be easily brought into contact with the brush.

Mire or dust may be speedily removed from the tops of shoes by introducing them under the brush and rotating the same, as described.

A sheet-metal comb O or, if preferred, a stationary flat brush is attached to the outer end of the mat-frame and so adjusted as to engage the bristles or fibers of the rotating brush and keep it free from all accumulations of clay or other matter.

What I claim as new is—

1. In a door-mat, a rectangular frame containing a horizontal mat and carrying a rotary brush located above the horizontal mat, and provided with spur-wheels and an adjustable friction appliance, substantially as herein set forth.

2. In combination with a door-mat frame, a rotary brush located above the mat and journaled in suitable bearings, one of which F has a hinged jaw *f*, whereby the brush may be easily removed or replaced, and the cap G and hood H to secure the brush in place and protect it from dust.

3. In combination with a door-mat, a rotary brush journaled above it and having on one end of its axle the friction-blocks L M, and on the other the coiled spring and a sleeve and nut whereby the proper friction is maintained so that the brush may not revolve too freely.

In testimony that I claim the foregoing I have hereunto set my hand, this 21st day of November, 1889, in the presence of two witnesses.

GEORGE E. EGGERT.

Witnesses:
L. M. CONYER,
C. C. SMITH.