

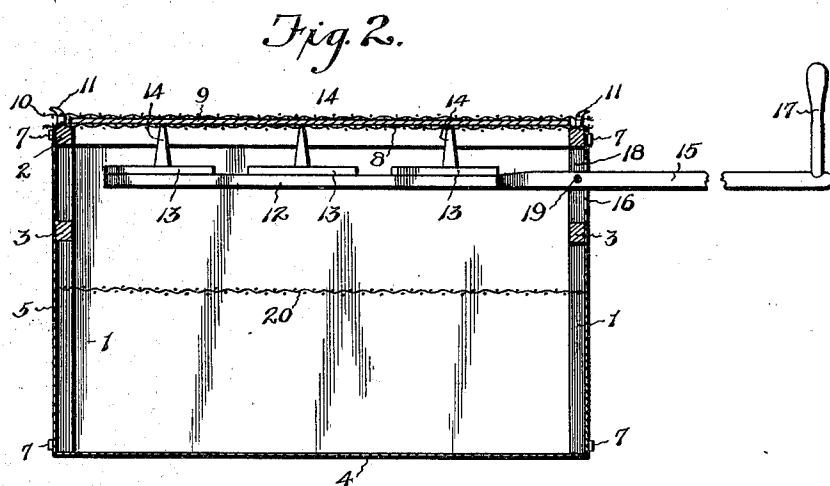
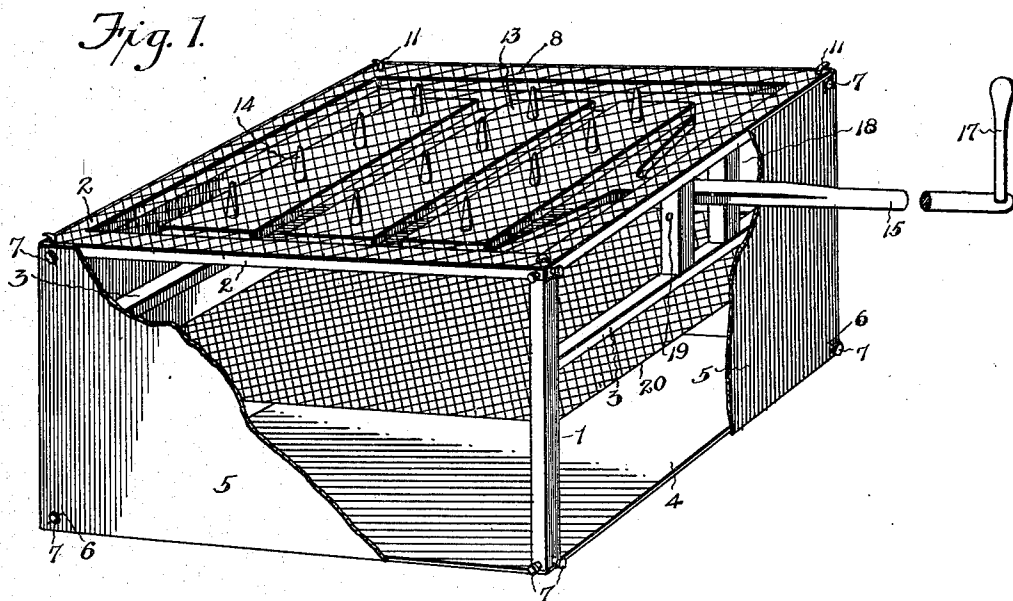
No. 734,841.

PATENTED JULY 28, 1903.

E. B. FERRIS.
CARPET CLEANER.

APPLICATION FILED MAR. 31, 1903.

NO MODEL.



Witnesses
Ralph Shepard
Ralph Shepard

Emma B Ferris Inventor
By
R. C. Shepherd
Attorney

UNITED STATES PATENT OFFICE.

EMMA B. FERRIS, OF COLUMBUS, OHIO.

CARPET-CLEANER.

SPECIFICATION forming part of Letters Patent No. 734,841, dated July 28, 1903.

Application filed March 31, 1903. Serial No. 150,406. (No model.)

To all whom it may concern:

Be it known that I, EMMA B. FERRIS, a citizen of the United States, residing at Columbus, in the county of Franklin and State of Ohio, have invented a certain new and useful Improvement in Carpet-Cleaners, of which the following is a specification.

This invention relates to apparatus for cleaning carpets, and is designed to provide an improved apparatus of this character wherein the cleaning operation is carried out by a beating action. It is furthermore designed to arrange the apparatus for convenience in manipulation, and thereby to adapt the same for domestic purposes.

Another object is to arrange for collecting the dirt which is beaten from the carpet and also to provide for conveniently removing the collected dirt from the apparatus.

With these and other objects in view the present invention consists in the combination and arrangement of parts, as will be hereinafter more fully described, shown in the accompanying drawings, and particularly pointed out in the appended claims, it being understood that changes in the form, proportion, size, and minor details may be made within the scope of the claims without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings, Figure 1 is a perspective view of a carpet-cleaning apparatus constructed in accordance with the present invention, parts being broken away to show the interior thereof. Fig. 2 is a longitudinal sectional view of the apparatus.

Like characters of reference designate corresponding parts in both figures of the drawings.

In carrying out the present invention there is provided a frame consisting of corner posts or uprights 1, of which there are preferably four in number, and they are connected at their upper ends by means of horizontal frame-bars 2. Other intermediate horizontal frame-bars 3 connect corresponding posts to brace and stiffen the frame structure. Across the bottoms of the posts is stretched a piece of textile material 4, preferably canvas, which is permanently connected to the posts to form a closed bottom. Each side of the frame is closed by a strip of canvas 5, the four corners

of which are provided with eyelets or button-holes 6 for the reception of headed studs or buttons 7, carried by the sides of the frame, at the top and bottom thereof. By this arrangement the side pieces may be conveniently applied and removed. It is preferred to use canvas or other textile material for the bottom and sides of the frame, as it retains the dirt and dust and is at the same time light and durable.

The top of the frame is open, and across the same is stretched some open-work material—as, for instance, cord-netting 8—which is held in place in any suitable manner. The carpet to be cleaned, which has been shown at 9 in Fig. 2 of the drawings, is placed across the open-work support 8, and over the carpet is stretched a retainer 10 in the form of netting, which is held in place by being engaged with suitable hooks 11 upon the top of the frame.

Within the frame and below the carpet is a beater consisting of a pair of end bars 12, which are connected by cross-bars 13, from which rise studs, fingers, or projections 14, adapted to work through the meshes of the open-work support 8. Extending from one side of the beater and rigidly connected thereto is a lever 15, which projects through a vertical slot 16 in one of the canvas sides of the frame and is provided at its outer end with a suitable handle 17. At opposite sides of the lever are suitable struts 18, which are connected to the adjacent horizontal frame-bars 2 and 3, and the lever is fulcrumed upon said struts, as indicated at 19.

Beneath the beater and within the frame is a foraminous or open-work substantially horizontal partition 20, preferably cord-netting, which is suitably connected to the frame and is designed to limit the downward movement of the beater and at the same time permitting of the dirt sifting through to the bottom of the frame.

In operating the apparatus the lever 15 is swung up and down by manipulating the handle 17, whereby the projections on the beater violently strike the under side of the carpet through the meshes of the open-work carpet-support 8, thereby effectually dislodging the dirt from the carpet, the latter being shifted along between the netting members 8 and 10 as each portion thereof is successively cleaned.

The dirt which is dislodged from the carpet drops down through the open-work partition 20 into the bottom of the frame, from which it may be conveniently removed by taking off one of the canvas sides.

Having thus described the invention, what is claimed, and desired to be secured by Letters Patent, is—

1. In a carpet-cleaner, the combination with an open-work carpet-support, of a beater located at one side of the support and provided with projections working through the open-work support and a yieldable carpet-retaining device detachably stretched over the opposite side of the support to prevent displacement of a piece of carpet by the action of the beater.

2. In a carpet-cleaner, the combination with a frame having an open top, of an open-work carpet-support across the top of the frame, a beater fulcrumed upon the frame beneath the support and provided with projections working through said support, and a yieldable carpet-retaining device stretched over the upper side of the support and detachably connected to the frame.

3. A carpet-cleaner, comprising a frame having an open top and a closed bottom, sides

of textile material having a detachable stud-and-eyelet connection with the frame, a carpet-support of netting stretched across the open top of the frame, a lever intermediately fulcrumed upon the frame and working in a slot in one side thereof, and a beater carried by the inner end of the lever.

4. In a carpet-cleaner, the combination with a frame, of a carpet-support of netting stretched across the frame, a carpet-retainer of netting to lie across a strip of carpet upon the carpet-support, and means to detachably secure the carpet-retainer in place.

5. In a carpet-cleaner, the combination with a frame having an open top, of a carpet-support of netting stretched across the open top of the frame, hooks at the top of the frame, a carpet-retainer of netting lying above the carpet-support and detachably engaged with the hooks, a lever intermediately fulcrumed upon the frame, and a beater carried by the inner end portion of the lever and provided with upstanding projections working through the meshes of the carpet-support.

EMMA B. FERRIS.

In presence of—

C. C. SHEPHERD,
A. L. PHELPS.