

(No Model.)

C. KARLSON.
RENOVATOR.

No. 507,369.

Patented Oct. 24, 1893.

Fig. 1

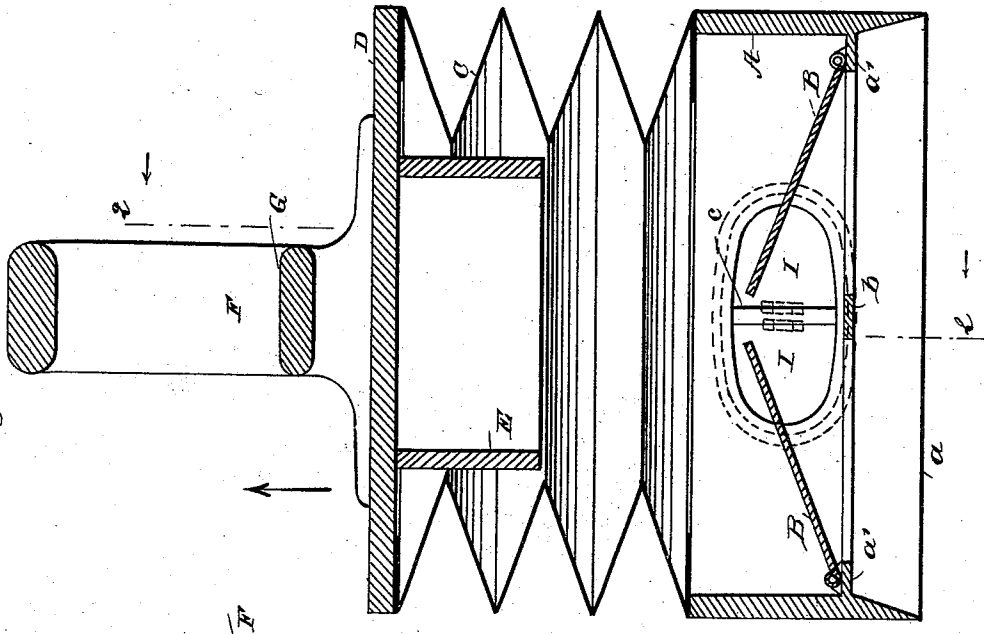


Fig. 2

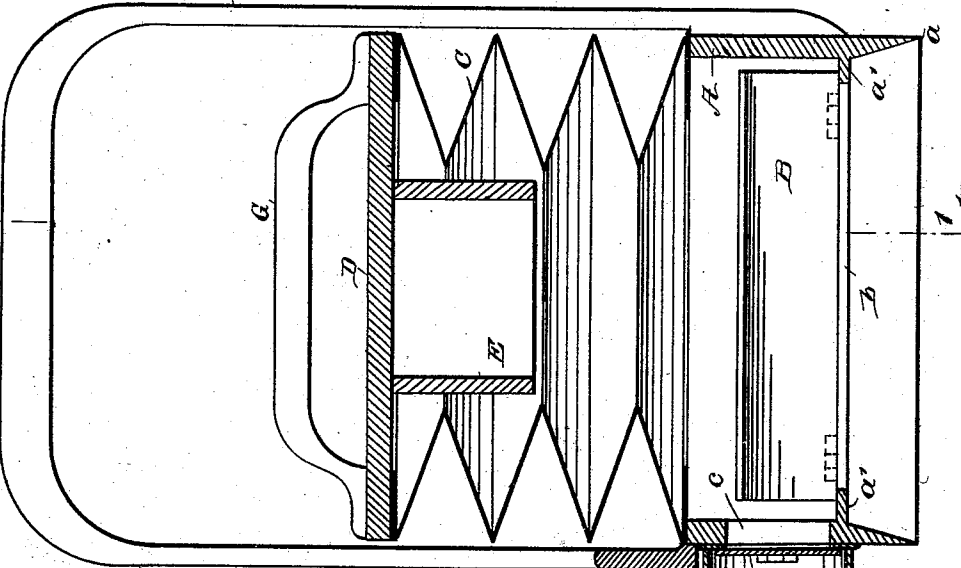
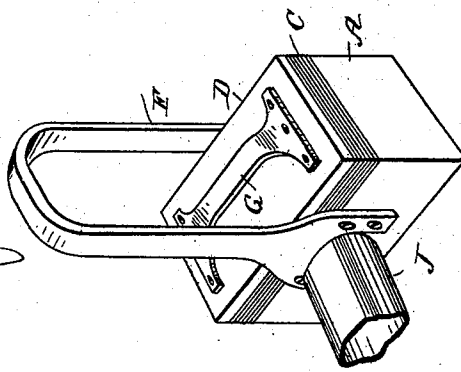


Fig. 3



WITNESSES:

C. Nerven
C. Sedgwick

INVENTOR

C. Karlson

BY

Munn & Co

ATTORNEYS.

UNITED STATES PATENT OFFICE

CHARLES KARLSON, OF RED BANK, NEW JERSEY.

RENOVATOR.

SPECIFICATION forming part of Letters Patent No. 507,369, dated October 24, 1893.

Application filed March 6, 1893. Serial No. 464,750. (No model.)

To all whom it may concern:

Be it known that I, CHARLES KARLSON, of Red Bank, in the county of Monmouth and State of New Jersey, have invented a new and useful Furniture and Carpet Renovator, of which the following is a full, clear, and exact description.

The object of the invention is to provide a novel, simple and convenient device, which will afford means to quickly and thoroughly remove dust from upholstered furniture, and carpets on floors.

To this end, my invention consists in the construction and combination of parts, as is hereinafter described and claimed.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a sectional side view of the improvement, on the line 1—1 in Fig. 2. Fig. 2 is a transverse sectional view on the line 2—2 in Fig. 1. Fig. 3 is a perspective view of the device, with the position of a feature of construction changed slightly.

This renovating device, is designed to remove dust from the fibrous material of furniture coverings, or from carpets that are stretched upon floors, by a measurable exhaustion of air where it is applied, thus drawing the dust from the material to be cleansed, and then discharging it into a receptacle or at a point exterior of the room where the operation is conducted, as may be preferred.

In the drawings, A represents a rectangular box, made of wood or other material, the dimensions being proportioned to suit the special service of the implement, as the device is not required to cover as great an area when made to renovate furniture, as when it is to be employed for the removal of dust from carpets.

The inner surface of the lower edge portion of box A, is cut sloping, so as to produce a thin lower edge *a* and at a short distance above said edge a horizontal wall *a'*, is formed or secured within the box, said wall *a'*, having two large apertures cut in it of a rectangular form, a transverse bar *b*, intervening said apertures. On the horizontal skeleton wall *a'*, two flap valves B, formed of light material not liable to warp or split, are hinged

by one edge so that their opposite free edges will lie near each other when both are imposed upon the cross bar *b*, which position they are caused to assume by their gravity.

A bellows attachment C, is provided, which is proportioned in dimensions to the area of the box A, and like it is rectangular in contour. The pliable material of the bellows is folded like the bellows portion of an accordion and is secured by its lower edge upon the top edge of the box A.

The upper edge of the bellows C, is attached upon the lower marginal surface of a top board D, of the same shape on the edges as the bellows and box, and all these parts are, laterally considered, of the same size, so that their margins will align vertically when the bellows C, is in a close folded condition, as shown in Fig. 3.

A pendent suction box E, is secured by its upper edge upon the lower surface of the top-board D; and said box having a rectangular form, is of such relative dimensions as will permit it to hang close to the inner folds of the bellows C, and when in lowered condition nearly touch the top surface of the valves B, that are then flat on the skeleton wall or valve seat *a'*.

On the sides of the box A, a bail handle F, is secured by its ends at opposite points and near the longitudinal center of the box, this handle being designed to afford means for the portage of the implement, and the placing of it in position when in use. Another loop-shaped handle piece G, is secured on the top board D, either as shown in Fig. 2, or at right angles to the handle F, as represented in Fig. 3, this handle being used to operate the bellows C, when the implement is in service.

At one side of the box A an oval aperture is produced which is divided into two equal openings by a vertical bar *c*, that is an integral portion of the side wall of the box. Upon the opposite edges of the bar *c*, two vertical flap valves I, are hinged, and adapted by their form and dimensions to cover the apertures in the side of the box when in contact with the latter.

There is a preferably flexible dust conduit J, attached by one end to the side of the box A, having a size and shape which will adapt the

end of said conduit to incase the valves I and permit their free action, said conduit being extended of a suitable length, to project its opposite end if desired out of a room wherein it is operated, or if preferred, to be introduced within a closed box, pail, or other portable or fixed receptacle for dust, which may be located close to the article of furniture that is undergoing renovation.

10 In the use of the improvement for cleaning furniture coverings, the articles of upholstered furniture such as chairs and divans, are first subjected to a light beating, for the purpose of loosening the dust from the fabric. 15 Then the device is applied to the surface of the goods on the furniture, successively in spots that it will inclose, and the bellows C, is worked by a manipulation of the handle G, the device being supported in place by the 20 operator grasping the handle F, with his other hand. The pumping action of the bellows C, draws the dust at every expansive movement of the bellows, and removes it from the fibrous material of the furniture coverings into the 25 box A, the valves B lifting as the bellows is expanded. When the bellows is collapsed by pressure on its top board D, the flap valves B are closed, and the side valves I are opened, permitting the discharge of the dust laden 30 air from the box A, through the conduit J, into a suitable receptacle (not shown) or out of the room, as may be preferred.

When the device is to be used for the removal of dust and dirt from a floor carpet or 35 from rugs, the box A is constructed in large form and the dimensions of other parts are also enlarged to render them co-acting, the operation of the implement in either case being the same.

Having thus described my invention, I 40 claim as new and desire to secure by Letters Patent—

1. A furniture and carpet renovating device, comprising a receiving box having an open lower end engaging with the fibrous 45 material to be cleaned, an inlet valve at the lower side within the box, an outlet valve for the box, and a bellows attached to the box and adapted by its manipulation to remove dust, substantially as described. 50

2. In a furniture and carpet renovating device, the combination, with a box having an open lower end and an aperture in one side, a valve seat within the box near its lower edge, hinged flap valves on said seat, and 55 flap valves over the aperture in the side of the box, of a bellows supported on the box, a handle to hold the box in place, and a handle for operating the bellows top, substantially as described. 60

3. In a furniture and carpet renovating device, the combination, with a box open at the top and bottom and one side, a valve seat within the box near its lower edge, said lower edge being sharpened or thinned, flap valves 65 hinged on the valve seat, and external flap valves over the opening in the side of the box, of a bellows fast by one edge on the top of the box, a top board on the bellows, a depending suction box within the bellows, a 70 handle on the box, a conduit over the valves on the side of the box, and a handle on the top board of the bellows, substantially as described.

CHARLES KARLSON.

Witnesses:

WM. P. PATTON,
E. M. CLARK.