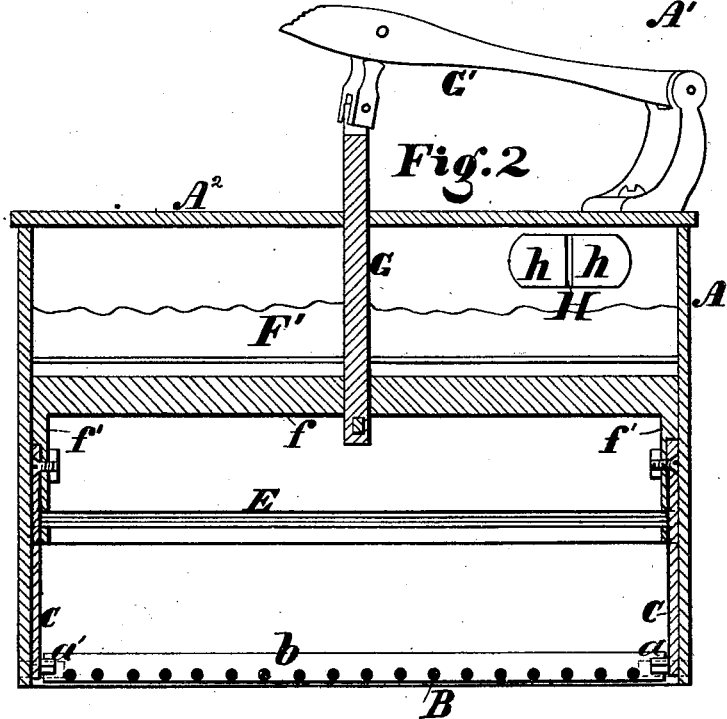
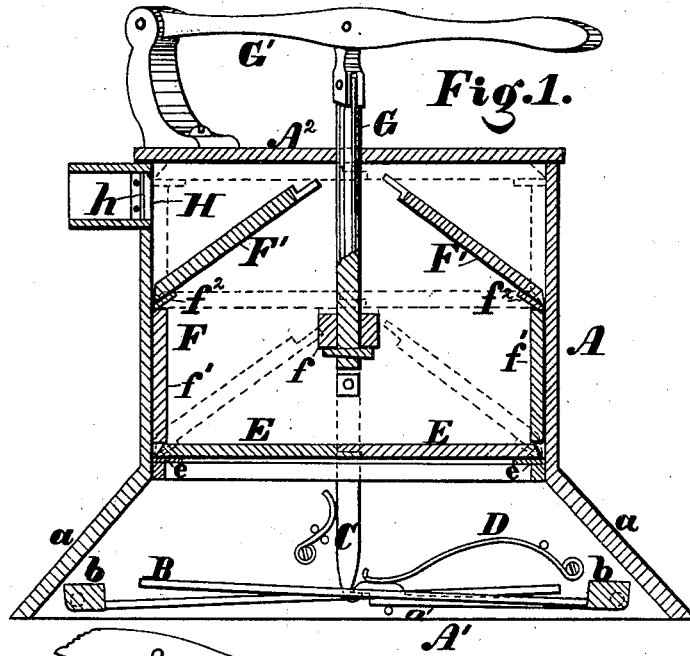


J. LEISS.

Carpet Beater and Cleaner.

No. 167,770.

Patented Sept. 14, 1875.



Witnesses

Saml. J. Van Stavern, Jr.
G. W. Cipe.

Inventor

Julius Leiss,
Connolly Bros., Attorneys

UNITED STATES PATENT OFFICE.

JULIUS LEISS, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN CARPET BEATERS AND CLEANERS.

Specification forming part of Letters Patent No. **167,770**, dated September 14, 1875; application filed August 2, 1875.

To all whom it may concern:

Be it known that I, JULIUS LEISS, of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a certain new and useful Carpet Beater and Cleaner; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification, in which—

Figure 1 is a vertical transverse section of the invention; Fig. 2, a vertical longitudinal section of the invention.

The object of my invention is to produce a machine, device, or apparatus by which carpets can be thoroughly beaten and cleaned without being removed from the floor on which they are laid. My invention accordingly consists in the novel construction of the parts hereinafter described, and their combination, producing an apparatus of the character above set forth.

A in the accompanying drawing represents a box formed with an open mouth, A^1 , having two flaring sides, $a a$. B B represent two series of intersecting-rods attached to bars $b b$, which are moved by tappets C, their return or downward motion being effected by springs D D. E E are two leaves, hinged at $e e$, and forming flap-valves, which open upwardly. F is a rectangular frame of four sides, $f^1 f^1$, having a cross-piece, f . F' F' are two sections forming the lid of said frame and hinged at $f^2 f^2$, so as to operate as valves, opening upwardly and alternating with the leaves E E, as hereinafter described. G is a plunger or piston passing through the lid A^2 , actuated by the handle G' and secured to the cross-piece f . H is an opening near the lid A^2 , having flap-valves $h h$, which open outwardly.

On depressing the handle G, the frame F is moved downwardly, and the arms a' , which

have beveled ends, and which are attached to the bars b , are caught by the tappets C, which have their upper ends secured to said frame. At the same time the valves E E are closed by the pressure of the frame F, and the valves F' F' opened by the pressure of the air contained within the frame F. On moving the handle upwardly the arms a' are raised, and through them the rods B B lifted a short distance, after which they are released from their engagement with the tappets C, whereupon the rods B B, by the action of the springs D D, are made to strike the carpet beneath. During the upward movement of the handle the valves E E, by suction, open, and the valves F' F', under pressure of the air above, close. This has the effect of drawing or pumping the dust beaten from the carpet into the upper portion of the case A and ejecting it through the opening H, which should be provided with a flexible tube terminating in a water-vessel or sponge to prevent the dissemination of the dust through the apartment.

What I claim is—

1. A machine or apparatus for cleaning carpets while laid on the floor, embracing the following instrumentalities: A tight box or case, a series of rods or beaters, and a valve or valves for drawing up the dust raised by the beaters, substantially as set forth.

2. The combination of the case A, beaters B B, frame F, valves E and F', and plunger G, with the tappets C, arms a' , bars b , and springs D, the several parts being constructed and combined for operation, substantially as shown and described.

In testimony that I claim the foregoing I have hereunto set my hand this 27th day of July, 1875.

JULIUS LEISS.

Witnesses:

M. DANL. CONNOLLY,
CHAS. F. VAN HORN.