

H. Henry Lindhorst.
 PATENTED JUN 14 1870
Carpet Cleaning Machine.

104171

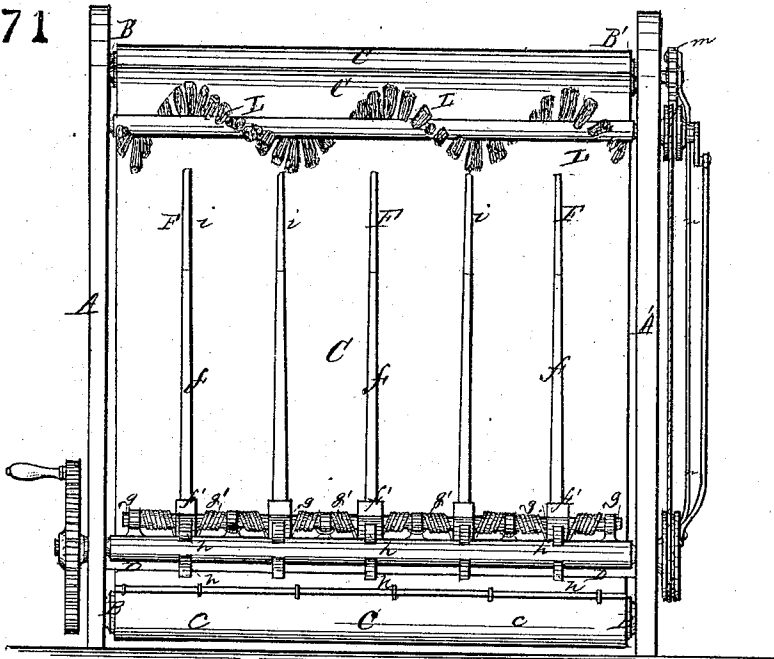


Figure 1

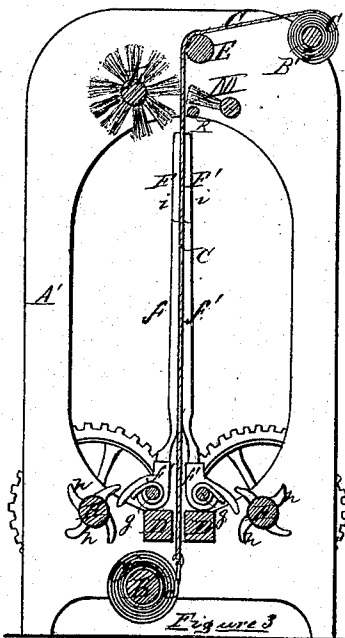


Figure 3

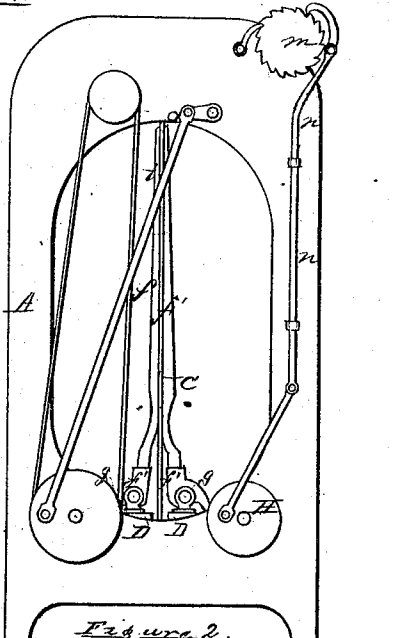


Figure 2

Witnesses
William D. Herchel
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HERMANN HENRY LINDHORST, OF ST. LOUIS, MISSOURI.

Letters Patent No. 104,171, dated June 14, 1870.

IMPROVED CARPET-CLEANING MACHINE.

The Schedule referred to in these Letters Patent and making part of the same

To all whom it may concern:

Be it known that I, HERMANN HENRY LINDHORST, of St. Louis, in the county of St. Louis and State of Missouri, have made certain new and useful Improvements in Carpet-Cleaners; and I do hereby declare that the following is a full and true description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon.

This invention relates to those machines now employed for cleaning or beating cloths, mattings, carpets, and the like.

The nature of this invention is in the arrangement of the cloth or carpet being cleansed vertically between a double set of beaters by which no undue blows causing rents of the cloth will be received thereon, and by which the dust or dirt will be most readily dislodged and forced away from the cloth, and in the combination of brush devices with the other parts referred to, for the more effective operation in cleansing.

To enable those skilled in the art to make and use my said invention, I will now more fully describe the same, referring herein to the accompanying—

Figure 1 as a front elevation, to

Figure 2 as side elevation, and to

Figure 3 as a vertical central section.

Upon a suitable frame, A A', all parts are supported and secured to operate in the manner desired.

Connecting the frame parts, A and A', top and bottom, are respectively the carpet-drums B and B'; on the lower drum the carpet C is wound for cleaning; but, to be able to cleanse the full length of carpet, a cloth "make-up" piece, c, is first secured to the drum, (and this being of the length to reach between the drums,) to which the carpet attaches usually by strong cords or hooks; similarly the opposite end of carpet is attached to B'.

To achieve the vertical position of carpets as desired, the same, after leaving B and passing between the transverse beams D of the main frame, is guided (nearly on a level with the drum B') over a roller, E.

In the vertical movement between the beams D and roller E the carpet is subjected to the blows or lashings of the beaters F and F'.

The beater-sticks *f* are secured in the tappet-heads *f'*, pivoting on the transverse shafts *g*.

Each tappet-head connects, by coil springs *g'*, (or any similar device,) with the shaft, so that the beater-stick tends to move toward the cloth.

The beaters are set in motion by the cam-shafts H, which have many pronged cams *h*, each operating one of the beater-tappets. Of course the cams will be so placed as to produce alternation of action. At the ends of the cam shafts they will connect by suitable gearing, and they will be driven by the power source in any ordinary manner.

It will be advantageous to arrange one set of beaters as jointed beaters and lashers, the lashers *i* being secured to the ends of the short beater-arms. These lashers will be of leather, hemp, rubber, or like material.

A straight metallic bar, K, is just at the top of the beat of the lashers and beaters extending from frame to frame. The cloth is thus in a comparatively smooth condition between the bar K and the roller E, and is subjected to the rotating outer brush L and the vibrating inner brush M, the brush-shaft being operated by devices readily arrangeable. The cloth being thus cleansed, both sides are rolled up on the drum D'.

The feed-motion for propelling the carpet is by a ratchet-wheel, *m*, and a pawl-rod, *n*, the latter operated by one of the cam-shafts H.

If it be needed, the carpet may be reversed, so as to equalize the action of the different devices.

Having thus fully described my said invention,

What I claim is—

The arrangement of the beaters F and F', in combination with the brushes L and M, guide-rollers K and E, connecting-shaft *n*, cam-shaft H, and cams *h*, with springs *g*, arranged with connecting-belts, pulleys *e*, to give motion, as shown and described, for the purpose set forth.

In testimony of said invention, I have hereunto set my hand in presence of—

Witnesses: H. HENRY LINDHORST.

WILLIAM W. HERTHEL,

ROBERT BURN'S.