

W. H. HANKINSON.
Carpet-Beaters

No. 139,145

Patented May 20, 1873.

Fig. 1.

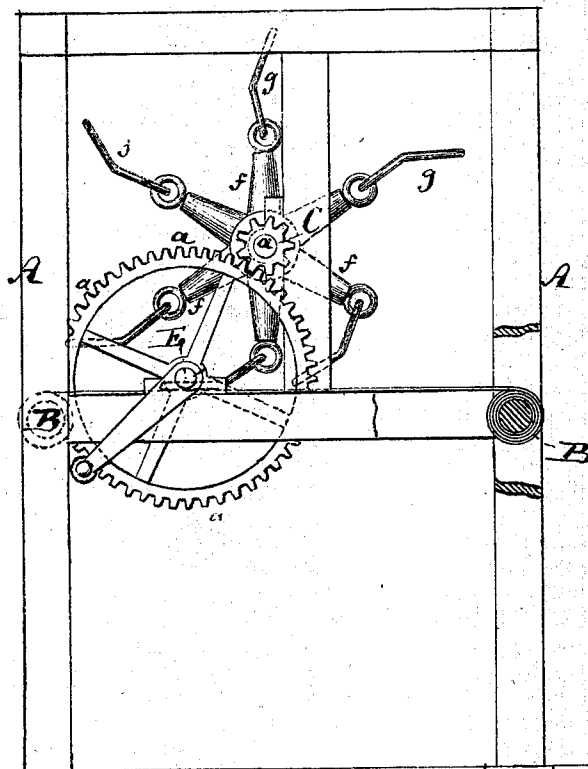
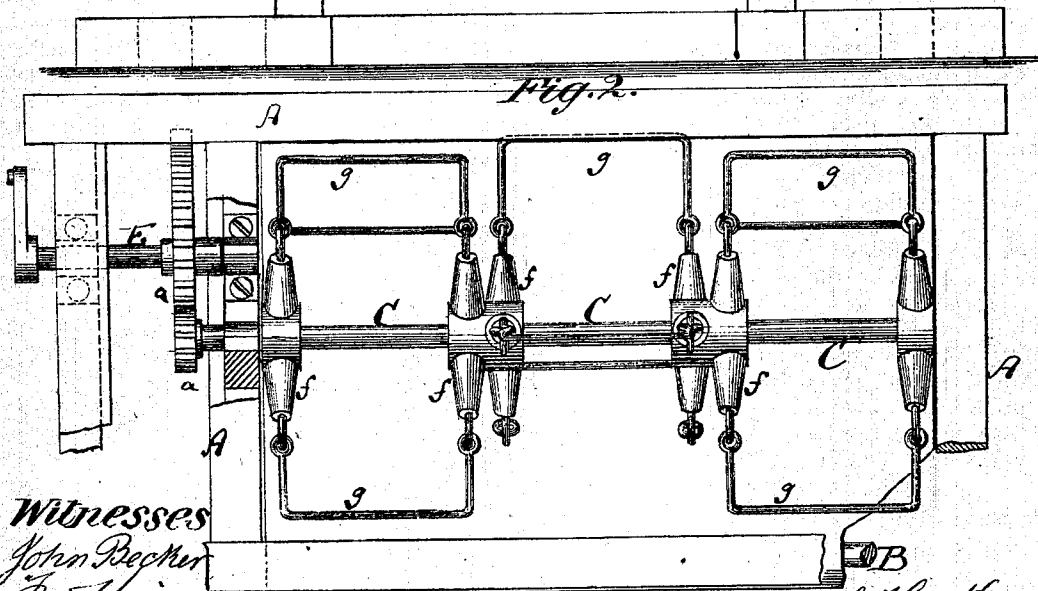


Fig. 2.



Witnesses
John Becker
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UNITED STATES PATENT OFFICE.

WILLIAM H. HANKINSON, OF NEW YORK, N. Y.

IMPROVEMENT IN CARPET-BEATERS.

Specification forming part of Letters Patent No. **139,145**, dated May 20, 1873; application filed April 25, 1873.

To all whom it may concern:

Be it known that I, WILLIAM H. HANKINSON, of the city, county, and State of New York, have invented an Improved Carpet-Beating Machine, of which the following is a specification:

The object of my invention is to produce a machine which will clean carpets throughout their whole width by means of rigid links fastened to a horizontal shaft, and having their beating-surfaces parallel to the axis of such shaft, or nearly so.

A machine thus arranged will possess several advantages over the ordinary system of straps or whips, in that the entire width of the carpets can be reached by the links, while the straps or whips, being usually at right angles to the shaft, could only clean those certain portions of the fabric which they happened to strike, and if not arranged very close together would clean the carpet but very imperfectly.

It had been supposed that rigid links would do greater injury to the carpets than the straps or whips; but I have found that if properly smoothened they are more effective than flexible and coarsely-surfaced beaters, and less liable to injure the fabrics.

Figure 1 in the drawing represents an end view, partly in section, of my improved carpet-beating machine. Fig. 2 is a top view, partly in section, of the same.

Similar letters of reference indicate corresponding parts in both figures.

Letter A represents a frame, of wood or other material, which is arranged suitably to carry and hold all the different parts of the machine. B B are the two drums, over which the carpet is to be cleaned is stretched, and by which it is fed. C represents a horizontal shaft, hung in the frame A parallel to the

drums B. The shaft is connected by means of gear-wheels *a a*, or otherwise, to a driving-shaft, E, so that rapid rotary motion may be imparted to it. The driving-shaft E may be driven by steam or muscular power. The shaft C is provided with a series of radiating arms, *f f*, always arranged in pairs. They are applied along the entire length of the shaft C, dividing it into three, more or less, sections longitudinally. I prefer to arrange the arms *f f*, of which there are several pairs in each section, at such different angles to each other that the beaters suspended from them will strike the carpet at different times, but successively. To each pair of arms *f f* are jointed the ends of U-shaped beaters *g g g*, made of ordinary gas-pipe or of other suitable tubular or solid inflexible material—either metal, wood, or both—which will, when motion is imparted to the driving-shaft E, strike the carpet, while it is fed along the drums, and clean it. There being thus a series of beaters, *g*, applied around the shaft C at every part of its circumference, it is clear that the carpet will at every revolution of the shaft be struck several times, and, therefore, thoroughly beaten and cleaned.

I claim as my invention and desire to secure by Letters Patent—

1. A carpet-beating machine made with rigid jointed beaters whose striking-surfaces are nearly parallel to the axis of the shaft that carries them, as described.

2. The U-shaped beaters *g*, jointed to the radial arms *f* of the rotary shaft C, substantially as specified.

WILLIAM H. HANKINSON.

Witnesses:

MICHAEL RYAN,
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