

E. SPENCER.
CARPET BEATING MACHINE.

No. 180,075.

Patented July 18, 1876.

Fig. 1.

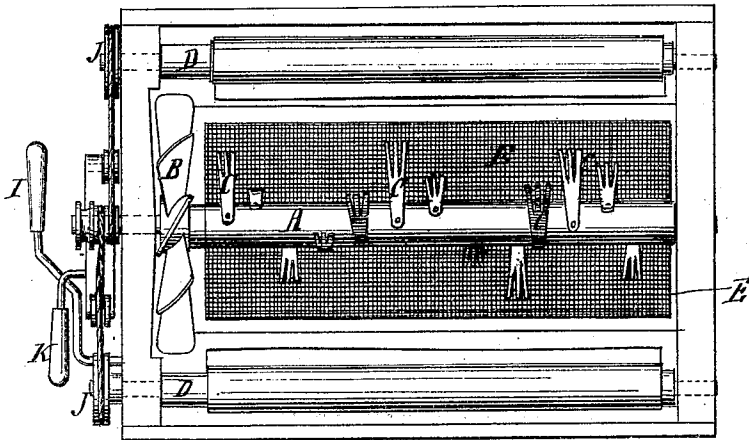


Fig. 2.

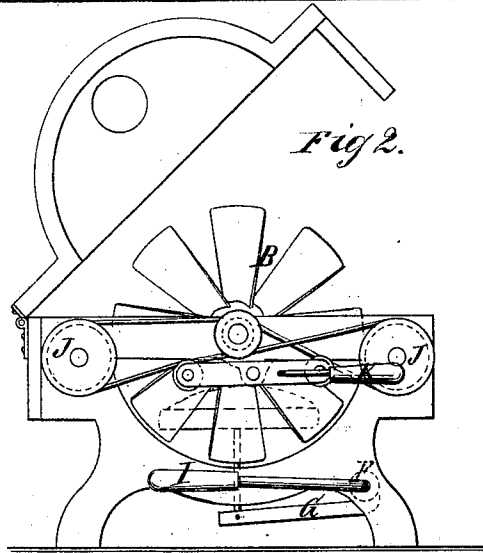
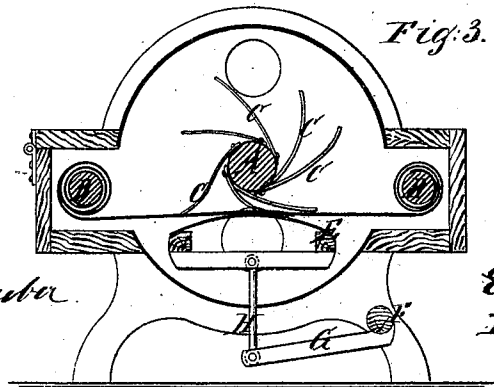


Fig. 3.



Witnesses:
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UNITED STATES PATENT OFFICE.

ELIHU SPENCER, OF ELIZABETH, NEW JERSEY.

IMPROVEMENT IN CARPET-BEATING MACHINES.

Specification forming part of Letters Patent No. **180,075**, dated July 18, 1876; application filed May 13, 1876.

To all whom it may concern:

Be it known that I, ELIHU SPENCER, of the city of Elizabeth, in Union county and State of New Jersey, have invented an Improvement in Machines for Beating Carpets, of which the following is a specification:

My object is to produce a machine for beating carpets that will more effectually do the work with less injury to the carpet, and that shall be more conveniently and easily operated, than those hitherto made.

My invention consists in the combination and arrangement of a revolving shaft, provided with a fan attached to one end, and a series of beaters made of hide, either raw or tanned, attached in a spiral form at short distances from each other to its entire length, and an adjustable rack, formed of wire or slats, for the support of the carpet while undergoing the process of being beaten. I also arrange on each side of the rack rollers, to which the ends of the carpet are fastened, and over which it is wound as it is beaten. These rollers derive their motion from the main or beater shaft by belts arranged in such a way that by means of a lever their motion may be reversed. These reversible rollers serve to carry the carpet back and forth under the beaters until it is free from dust, while by means of a rock-shaft and arms connected with the rack the carpet may receive a lighter or heavier blow from the beaters, while it entirely protects it from strain or injury from the beaters. The fan is constructed and designed to work at the same speed as the beaters. Both are attached to the same shaft, and require a rapid motion.

By the arrangement of the fan, and the manner in which the beaters are attached to the shaft, the dust is not only blown free from the carpet, but is driven through openings in the end of the case by which the beaters are inclosed, and may be collected in a damp chamber, or be conducted away in or through a funnel to some point outside of the building.

The entire machinery is completely incased, so that no dust escapes into the room, an opening being left at the fan end, so that the entire operation can be seen without inconvenience from the dust.

My invention will be more readily understood by reference to the accompanying drawings, which form a part of this specification.

Figure 1 is a top view of my improved machine for beating carpets with the top removed. Fig. 2 is an end view of the same, and Fig. 3 is a section thereof.

A is the revolving shaft, to which the fan and beaters are attached. B is the fan; C, the beaters. D and D are the rollers, which carry the carpet back and forth under the beaters. E is the rack, on which the carpet rests while it is being beaten. This rack is made adjustable, so that it may be raised or lowered, for the purpose of giving the carpet a light or heavy stroke. F is a rock-shaft, to which are attached arms G, which are fastened to the rack by rods H, so that by means of a lever, I, the operator may raise or lower the rack at will. J and J are the pulleys attached to the ends of the rollers D and D, and are connected to the main or beater shaft by belts, so that by means of a lever, K, and friction-rollers they may be alternately tightened or loosened, by which means the motion of the rollers D and D may be reversed.

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

The revolving shaft A, provided with the fan B and the beaters C, in combination with the adjustable rack E and the reversible rollers D and D, all arranged and operating substantially as and for the purpose set forth.

ELIHU SPENCER.

Witnesses:

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