

J. P. PRENTISS.
Carpet Beating and Cleaning Machine.

No. 198,679.

Patented Dec. 25, 1877.

Fig. 1.

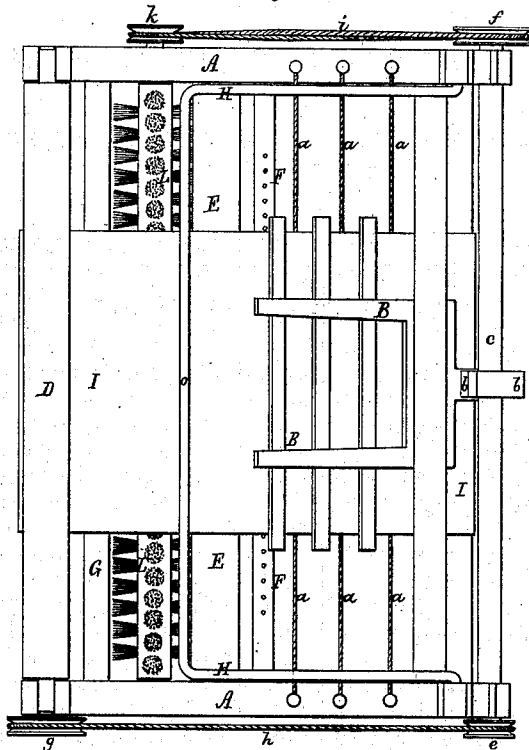
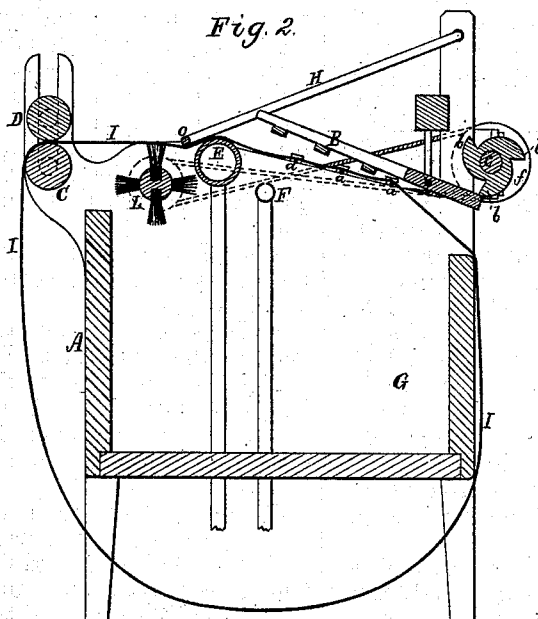


Fig. 2.



Witnesses.

S. W. Piper
L. W. Miller

Inventor
Junius P. Prentiss

by R. H. Day atty.

UNITED STATES PATENT OFFICE.

JUNIUS P. PRENTISS, OF FALL RIVER, MASSACHUSETTS.

IMPROVEMENT IN CARPET BEATING AND CLEANING MACHINES.

Specification forming part of Letters Patent No. **198,679**, dated December 25, 1877; application filed November 6, 1877.

To all whom it may concern:

Be it known that I, JUNIUS P. PRENTISS, of Fall River, of the county of Bristol and State of Massachusetts, have invented a new and useful Machine or Improvement in Machinery for Beating Carpets; and do hereby declare the same to be described in the following specification and represented in the accompanying drawings, of which—

Figure 1 is a top view, and Fig. 2 a transverse section, of a machine embodying my invention.

The machine is not only to perform the beating of a rug or carpet, but to steam, dry, and brush it, thereby cleansing and renovating or more or less restoring it to its normal condition.

In the drawings, A denotes the frame of the machine, provided with a series of lines or ropes, *a a a*, extended across it from end to end, and under a beater, B, that is pivoted to the frame, and when in operation is rapidly vibrated or moved upward and allowed to fall down by a series of cams or wipers, *b b b*, projecting from a rotary shaft, *c*. To this shaft the motor or power for operating the machine may be suitably applied. At the ends of the shaft there are two pulleys, *e* and *f*. Around one of them and a pulley, *g*, fixed on the shaft of the lower roller C of a set of draft-rollers, C D, arranged at the front of the frame, as shown, an endless band, *h*, is disposed. A similar but crossed band, *i*, goes around the pulley *f*, and a pulley, *k*, fixed on the shaft of a rotary brush, L, arranged between the draft-rollers and the beater, and pivoted in the frame. Between the said brush and the beater is a hollow drying-drum, E, which is extended from end to end of the frame, and should be provided with pipes for the passage of steam or hot air into and out of it, for the purpose of heating it.

Furthermore, somewhat in rear of and below the said drum E, there is arranged across the frame a foraminous pipe, F, for receiving steam and discharging it upward against the face side of a carpet while such carpet may be in the act of being drawn over such pipe.

Besides the above-described devices, the machine has, or may have, below them a box

or receptacle, G, for intercepting the dust and extraneous matters that may be discharged from the carpet; and there is also to the machine a presser, H, composed of a rod, bent as shown, and pivoted at its ends to the frame, the middle straight portion *o* of the rod being arranged so as to press the carpet down to the drier and the rotary brush.

In the drawings a carpet is represented at I as arranged for being treated by the machine, its face or pile side resting on the beater-lines, the drier, and brush, such carpet usually being connected or sewed together at its ends.

On the machine being put in operation, the carpet will be continuously drawn forward by the draft-rollers, or the lower of them, and will be beaten, steamed, dried, and brushed. By steaming it while it is being beaten, its pile or face will be moistened, and the separation of the fibers and the expulsion of dust will be facilitated; and by subsequently drying the carpet by the hot drier it will be ironed out or smoothed, the rotary brush serving to bring up the pile or fibers of the face, and remove any extraneous matters not separated from it by the beater. The steaming and ironing or drying the carpet by the hot drum greatly renovates it or improves its appearance.

What I claim as my invention in the said machine for treating carpets, as described, is as follows:

1. The combination of the beating mechanism and the steaming-tube.
2. The combination of the beating mechanism, steaming-tube, and the draft-rollers.
3. The combination of the beating mechanism, steaming-tube, and the heating-cylinder or drier.
4. The combination of the beating mechanism, steaming-tube, the drier, and draft-rollers.
5. The combination of the beating mechanism, the steaming-tube, and the brush.
6. The combination of the beating mechanism, the steaming-tube, the brush, and the draft-rollers.
7. The combination of the beating mechanism, the steaming-tube, the drier, and the brush.

8. The combination of the beating mechanism, steaming-tube, drier, brush, and the draft-rollers.

9. The combination of the beating mechanism, steaming-tube, drier, and presser.

10. The combination of the beating mechanism, steaming-tube, drier, draft-rollers, and the presser.

11. The combination of the beating mechanism,

steaming-tube, drier, brush, draft-rollers, and the presser, all being arranged and applied substantially and to operate as and for the purpose set forth.

JUNIUS P. PRENTISS.

Witnesses:

FRANK S. FAIRBANKS,
RUTH LAKE.