

UNITED STATES PATENT OFFICE.

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IMPROVEMENT IN MACHINES FOR RUBBING OIL-CLOTHS.

Specification forming part of Letters Patent No. **199,753**, dated January 29, 1878; application filed
July 31, 1875.

To all whom it may concern:

Be it known that I, AUGUSTUS E. SNOW, of the city and county of Philadelphia, in the State of Pennsylvania, have invented a new and useful Improvement in Machines for Rubbing Oil-Cloth; and I do hereby declare the following to be a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawing, which forms a part of this specification, and in which—

Figure 1 is a side elevation of a machine provided with my improvement, and Fig. 2 is a rear view of the rubbing device.

The same parts are denoted by the same letters in both figures.

This invention is an improvement on the machine by which floor oil-cloth is rubbed after receiving each coat of paint for the purpose of smoothing its surface; and it consists as hereinafter set forth and claimed.

A, A¹, A², B, B¹, and B², in the drawing, represent the frame of the machine. G is the driving-wheel, on whose shaft H is mounted the driving-roller H'. N N' are tension-rollers to keep the belt O stretched. L is the take-up roller, whose journals *l* are supported by hooks *m'* on the end of swinging hangers M, which permit the roller L to bear against the driving-roller, and also to yield when pressed apart from it by the winding of the oil-cloth. F is a pulley, driven either from the wheel G, as shown in the drawing, or independently thereof. On the shaft E of pulley F is a crank, *e*, which vibrates the swing *c* by means of a pitman, D.

The swing is of the usual construction; but to the back of the bottom board *c'*, I attach a square-edged steel knife or scraper, *c²*, (say one-sixteenth of an inch in thickness,) by means of bolts *c⁴* passing through slots in said knife, and permitting it to be adjusted to any desired height, as shown in Fig. 2.

In the operation of this improvement the roller K, with the oil-cloth wound on it, is placed on the frame of the machine, and the oil-cloth is laid on the belt over the roller I' in the usual manner, and passed under the scraper *c²* and under and around the take-up roller. At each stroke of the swing the surface of the oil-cloth is rubbed by the scraper. The roller L, bearing against the driving-roller, is revolved by the motion of the latter, and rolls up the oil-cloth, drawing it under the knife and unrolling it from the roller K.

The speed of the swing relatively to the feed motion of the oil-cloth should be higher than is shown in the drawing, and I also prefer to drive the swing independently of the wheel G, so that the feed may, when necessary, be stopped, and any part of the oil-cloth subjected to an extra rubbing. These features, however, form no part of this invention.

If desired, another scraper, *c²*, may be attached to the front of the swing, as shown in Fig. 1. The usual pumice-stone, glued to the bottom board, may also be employed in addition to the scraper.

Instead of a straight knife, *c²*, a spiral may be used, and for the swing may be substituted any mechanism suitable for giving the scraper a revolving or reciprocating instead of a vibrating movement.

What I claim as my invention, and desire to secure by Letters Patent of the United States, is—

In a machine for rubbing oil-cloth, the combination, with an oscillating rubber provided with a pumice-stone-coated rubbing-face, of one or more metallic scrapers attached to said rubber, substantially as and for the purpose set forth.

AUGUSTUS E. SNOW.

Witnesses:

OWEN DARCY,
WILLIAM PARENT.

When or as I become lawyer