C. ROMMEL & W. H. CRANE.

Machines for Rubbing Oil-Cloths.

No. 156,947. Patented Nov. 17, 1874.

Fig. 1.

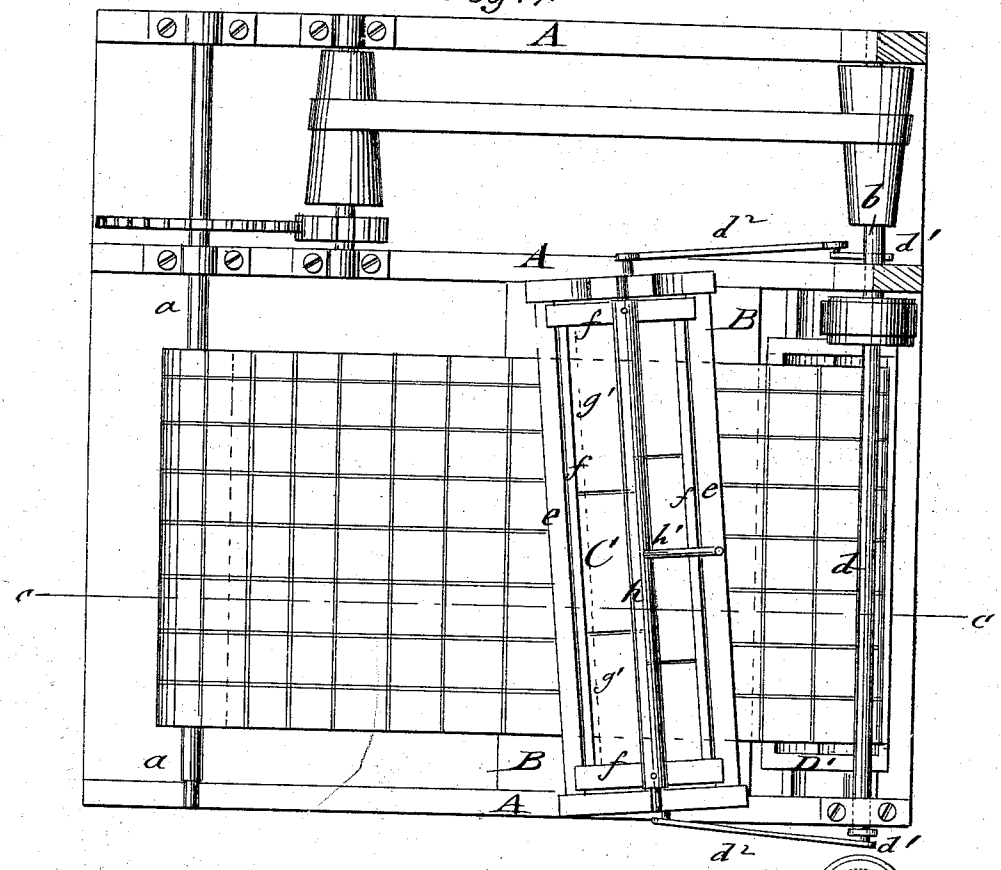
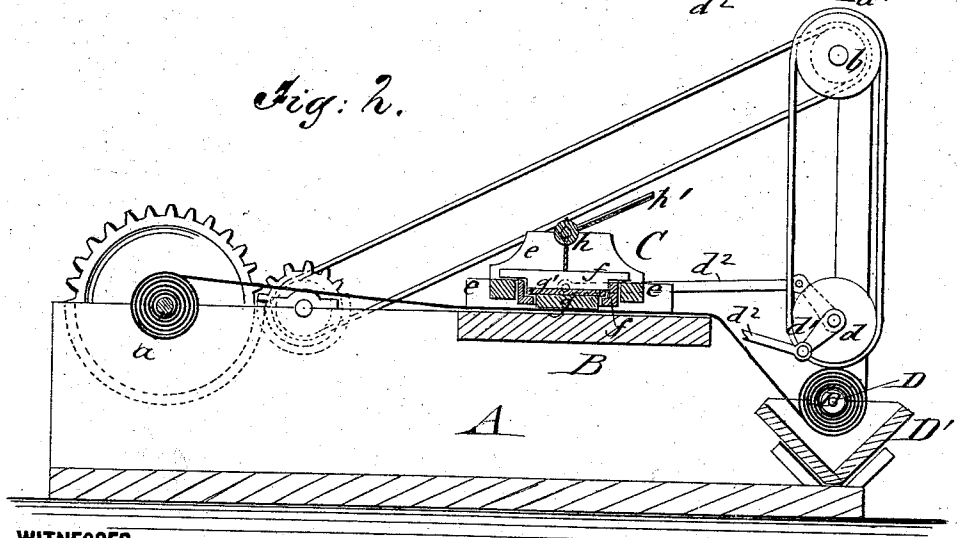


Fig. 2.



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UNITED STATES PATENT OFFICE.

CHARLES ROMMEL AND WILLIAM H. CRANE, OF ELIZABETH, NEW JERSEY, ASSIGNORS TO THEMSELVES AND WISNER H. TOWNSEND.

IMPROVEMENT IN MACHINES FOR RUBBING OIL-CLOTH.

Specification forming part of Letters Patent No. **156,947**, dated November 17, 1874; application filed August 1, 1874.

To all whom it may concern:

Be it known that we, CHARLES ROMMEL and WILLIAM H. CRANE, of Elizabeth, in the county of Union and State of New Jersey, have invented a new and Improved Machine for Rubbing Oil-Cloth and other Fabrics, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a top view of our improved machine for rubbing oil-cloth or other fabrics; and Fig. 2, a vertical longitudinal section of the same on the line *c c*, Fig. 1.

Similar letters of reference indicate corresponding parts.

The object of our invention is to furnish an improved machine for rubbing oil-cloth and other fabrics, by means of which the cloth is evenly, smoothly, and regularly rubbed in a rapid manner, and readily placed on the table to be exposed to the rubbing-blocks.

Our invention consists of a reciprocating rubber, to which simultaneous revolving motion is imparted by its connection with a shaft with cranks arranged in opposite direction. The rubber-frame supports the pumice-stone blocks on a sliding interior frame, which is hung to a roller with handle, to be readily raised with the pumice-stones, for admitting the cloth below the same.

In the drawing, A represents the frame of our cloth-rubbing machine, which is constructed mainly as a support to the bearings for the shafts, imparting motion to the various parts, and for the lateral table B, over which the cloth is stretched when passing below the rubber C. The roll of cloth is placed by its shaft D in a V-shaped trough or box, D′, at the rear part of the machine, and guided by a lever applied to the box straight over the table, for being evenly exposed to the rubber thereon. The end of the cloth is passed over the table B to a shaft, *a*, at the opposite end of the machine, being fastened thereto in suitable manner, and wound up by the rotations of the shaft, as imparted by means of gear-wheels, cone-pulleys, and belt from the driving-shaft *b*. A suitable guide of the usual construction connects the cloth with the driving-belt, and controls thereby the position of the belt on the cone-pulleys, so as to regulate the speed of the cloth in passing over the table, and the even rubbing of the same throughout the piece. The driving-shaft *b* is connected also, by pulleys and belt, with crank-shaft *d*, that imparts motion to the rubber C. The cranks d^1 are arranged in opposite direction to each other, and connected, by pivoted loosely-working rods d^2, to the rubber-frame, for the purpose of imparting simultaneously reciprocating and lateral motion to rubber C, by which means a kind of revolving motion is given to the same, so as to cut the fibers of the cloth and rub it smoother and more evenly than by hand. The rubber C is constructed of an outer guide-frame, *e*, and an interior vertically-adjustable frame, *f*, in which the rubbing pumice-stones *g*, glued to flanged boards *g′*, are loosely and detachably placed. The sliding frame *f* is hung by suitable cords to a roller, *h*, which turns readily in side bearings of outer frame *e* by means of a handle, *h′*, and may be raised with the rubbing-blocks from the cloth in an instant, as required, for interrupting the rubbing action. The rubber C may be easily lifted up for stretching a new piece of the cloth over the supporting-table, so that by means of the regular action both of the rubbing-blocks and the feeding motion, a uniform, smooth, and effective action of the rubber on the cloth is obtained, and time and labor economized thereby.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

1. In an oil-cloth-rubbing machine, the combination of the rubber C, by loosely-pivoted connecting-rods, with the rotating crank-shaft, having cranks in opposite direction, for the purpose of imparting vibratory motion, substantially in the manner and for the purpose set forth.

2. In an oil-cloth-rubbing machine, the rubber C, constructed with an interior vertically-sliding frame, supporting the detachable pumice-stones, adapted to be readily lifted to admit cloth under the rubber, substantially as specified.

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Witnesses:

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