

A. WILDER.

Machinery for the Manufacture of Oil-Cloth.

No. 153,651.

Patented July 28, 1874.

FIG. I.

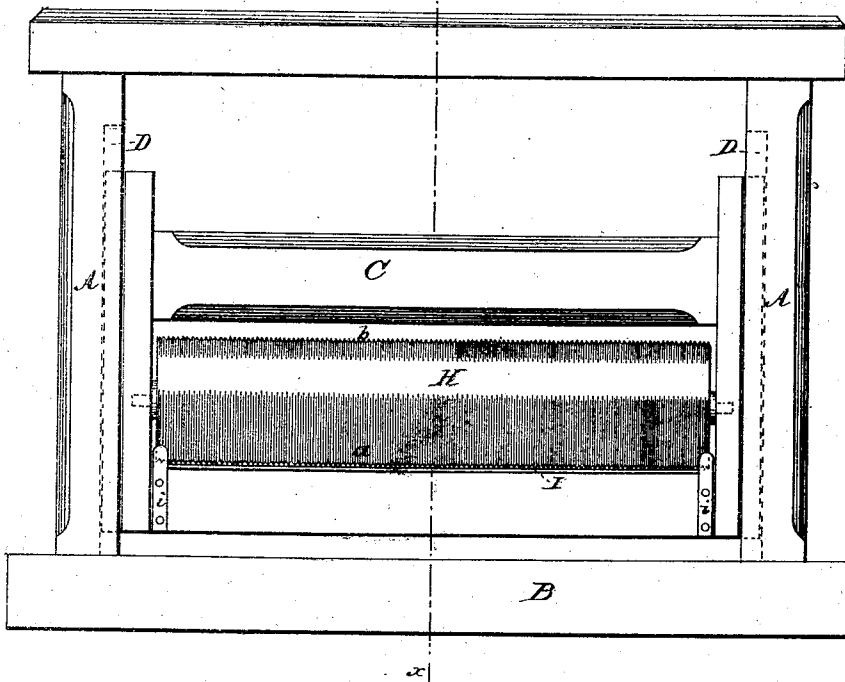
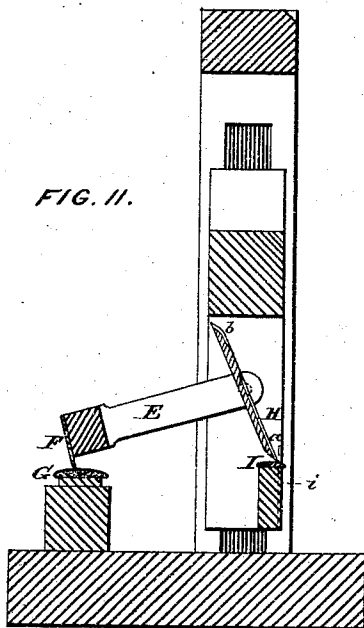


FIG. II.



WITNESSES:

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INVENTOR:

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By
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UNITED STATES PATENT OFFICE.

AMOS WILDER, OF AUGUSTA, MAINE.

IMPROVEMENT IN MACHINERY FOR THE MANUFACTURE OF OIL-CLOTHS.

Specification forming part of Letters Patent No. **153,651**, dated July 28, 1874; application filed July 23, 1874.

To all whom it may concern:

Be it known that I, AMOS WILDER, of Augusta, in the county of Kennebec and State of Maine, have invented certain new and useful Improvements in Machines for Marking and Scoring the "Brush Coat" of Oil-Cloth, of which the following is a specification:

My invention relates to a new and improved machine for scoring or marking oil-cloth, for the purpose of ornamenting the same; and it consists of a frame or standard carrying one or more adjustable smoothing or paint knives, and a knife with a serrated edge of peculiar construction for marking or scoring the brush-coat of oil-cloth previous to printing, said knives being so hung or arranged within the frame that they can be brought to bear upon the brush-coat of the oil-cloth as it advances supplied with paint, as will be hereinafter fully set forth and described.

In the drawings, Figure 1 represents a front view of my improved machine for scoring or marking oil-cloth. Fig. 2 is a sectional view of the same on the line *x x*.

A represents an upright frame attached to a base, B, and carrying a sliding frame, C, within it, which is capable of a vertical movement therein in the grooves D D. Said sliding frame C has attached to it near the bottom a swinging frame, E, extending to the rear of the apparatus, supporting one or more weighted smoothing or paint knives, F, over a cushion, G, padded with cotton, hair, or similar material. H represents the scoring or marking knife, which is hung or supported within the frame C on pivots at each end, in such a way that its lower edge will fall upon a cushion, I, secured in front of it to the stationary frame A, and the knife will be inclined forward, as shown in Fig. 2. Said knife is of peculiar construction. It is made of steel or other suitable material, with the lower edge beveled off or ground to an angle on one side, and serrated or pointed along said edge, as shown. This may be accomplished by cutting a series of short parallel grooves, *b*, along the beveled side of the edge at right angles to said edge, or by cutting a series of similar grooves, *a*, entirely, or nearly so, across the knife on the

side opposite the bevel at the edge at right angles thereto, cutting said grooves deep enough to give the serrations the proper size.

This last-mentioned form I prefer, as the knife can be readily sharpened whenever necessary without interfering with or injuring the serrations, as would be the case if they were cut directly upon the beveled side of the edges, as will be readily perceived.

In front of the knife, at each end of the cushion I, I provide a stop, *i*, to hold the edge of the knife down, and prevent it from being thrown upward by the passage of the cloth.

The scoring or marking knife is hung, as before stated, on pivots at each end, and its position may be changed by turning it on said pivots, so that either edge may be brought to bear upon the cloth.

One edge of the knife may be serrated on the beveled side, and the other on the face of the blade, as shown in the drawings, in which case the grooves on the face of the blade will only extend partially across the same.

The operation of my apparatus will be readily understood. The cloth, as it advances, supplied with paint, passes under the smoothing or paint knife, while the brush-coat is still in a soft or plastic condition, and passes first between the cushion G, the smoothing or paint knife F, which latter can be so adjusted as to smooth and trim down the said brush-coat to any desired extent, and prepare its surface for the action of the scoring or marking knife, to which the cloth next passes. As it passes under this knife, the surface is scored or marked by the serrated edge of the knife.

Any convenient pressure in a downward direction may be brought to bear upon the knife by means of the sliding frame C, which may be weighted or otherwise depressed.

What I claim as new, and desire to secure by Letters Patent, is—

1. A scoring or marking knife, beveled at its edge on one side, and provided with a series of grooves cut into the opposite side which form the serrations at the edge of the blade, substantially as and for the purposes herein described and set forth.

2. The serrated knife, in combination with the smoothing or paint knife or knives, substantially as described.

3. The serrated knife, in combination with an adjustable frame in which it is supported, substantially as described.

4. The double-edged knife, so hung at the ends that its edges may be changed so as to present either one to the cloth, as may be desired, substantially as and for the purposes set forth.

5. The method, substantially as described, of scoring and marking oil-cloth, by first pass-

ing it under a smoothing or paint knife or knives, and then under a scoring or marking knife with a serrated edge, as set forth.

In testimony that I claim the foregoing I have hereunto set my hand.

AMOS WILDER.

Witnesses:

JAMES L. NORRIS,

ALBERT H. NORRIS.