

A. WILDER.

Apparatus for the Manufacture of Oil-Cloth.

No. 153,649.

Patented July 28, 1874.

FIG. I.

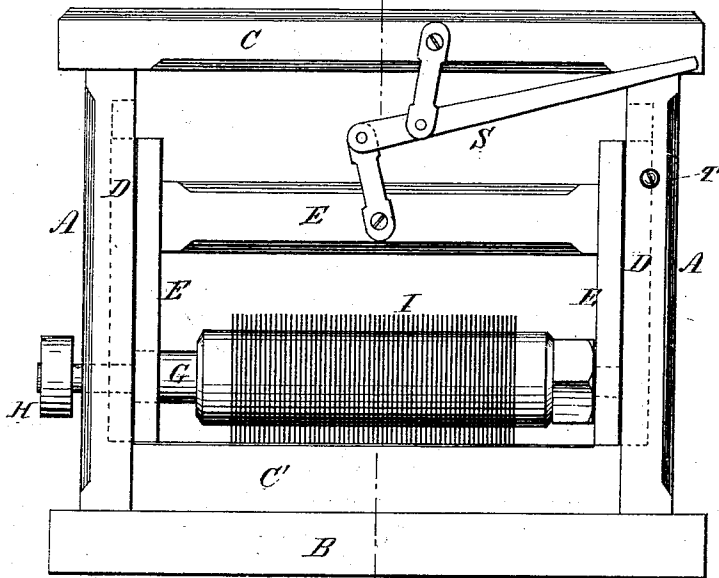


FIG. III.

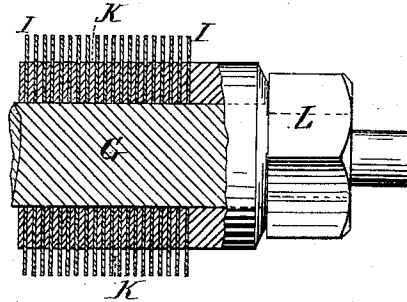
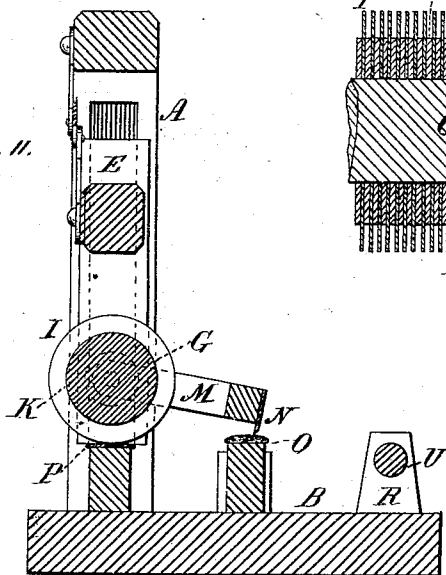


FIG. II.



WITNESSES:

A. H. Norris,

Geo. W. Cushing

INVENTOR:

Amos Wilder.

By James L. Norris,
Atty.

UNITED STATES PATENT OFFICE.

AMOS WILDER, OF AUGUSTA, MAINE.

IMPROVEMENT IN APPARATUS FOR THE MANUFACTURE OF OIL-CLOTH.

Specification forming part of Letters Patent No. **153,649**, dated July 28, 1874; application filed July 24, 1874.

CASE B.

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, Ribbing, or Scoring the "Brush-Coat" of Oil-Cloth, of which the following is a specification:

My invention relates to a new and improved apparatus for marking, scoring, or ribbing the brush-coat of oil-cloth; and it consists of a vertical frame set in ways or grooves in the sides of two vertical standards, and carrying a scoring, marking, or ribbing roller of peculiar construction, and also a swinging frame extending to the front of the machine, which carries one or more weighted paint-knives for scraping or smoothing the brush-coat of the oil-cloth while in a plastic or soft state, before the cloth passes under the marker, scorer, or ribber, the frame being capable of a slight vertical movement in the ways or grooves, in order that the roller may be raised or lowered when necessary.

In the drawing, Figure 1 represents a front view of my improved apparatus for marking, scoring, or ribbing the brush-coat of oil-cloth; Fig. 2, a transverse section of the same; and Fig. 3, a detached sectional view of the scoring, marking, or ribbing roller.

A A represent two upright standards, secured opposite each other upon a base or bed, B, and firmly braced at the top or bottom by means of suitable cross-beams C C'. These standards are provided with ways or grooves D D, (indicated by the dotted lines in the drawing,) in which is set a sliding frame, E, which is capable of a vertical movement in the ways or grooves D D, for the purpose to be hereinafter described. Said frame E carries a hollow or solid roller, F, at its lower end, mounted upon a shaft, G, having bearings at opposite sides of the frame, one end of said shaft passing through the frame, and also through a slot in the standard, and being provided with a pulley, H, by means of which a rotary motion may be imparted to the roller. Said roller consists of a series of metallic disks of any suitable metal set upon the shaft G, and hav-

ing a series of washers, K, less in diameter than said disks interposed between them, as clearly shown in Fig. 3. These disks and washers are securely clamped upon the shaft G by means of a screw-nut, L, at one end, and are capable of removal for cleaning or for repairing. To each journal of the shaft G I attach loosely one end of a swinging frame, M, which carries one or more paint-scraping or smoothing knives, N. Said knife falls upon a padded cushion, O, of the same length as the knife, placed directly under it, and over which the cloth travels on its way to the marking, ribbing, or scoring roller. A similar cushion, P, is placed under the said marking, ribbing, or scoring roller upon the cross-beam C', over which the cloth passes while being subjected to the action of said roller. A short distance to the rear of said cushion O I provide a roller, U, for supporting the cloth as it travels, supplied with the brush-cloth, said roller revolving in studs or standards R, attached to the base or bed B of the machine. S represents a compound lever, for elevating the sliding frame E, and with it the marking, ribbing, or scoring roller, in order to start the oil-cloth under said roller, and regulate the pressure upon the same, as will be readily perceived. Said lever is attached to the cross-beam C, and the sliding frame R, its long arm extending to one side, where it may be brought under a button or stud, T, when the frame E is elevated, so as to hold it in that position.

It is evident that any other means, such as a screw, for raising and depressing the frame, may be resorted to without any departure from my invention.

The operation of my apparatus will be readily understood.

The oil-cloth is passed over the roller U, with the brush-coat uppermost, and while said brush-coat is in a plastic or soft condition. The cloth is then passed on to the cushion O, under the paint or smoothing knife N, to secure a proper film or thickness of the paint or brush-coat, and then under the marking or scoring roller. The roller is made to revolve in the proper direction by means of a band applied to the pulley H, and as the cloth passes

under it the disks indent or score the cloth, marking or ribbing it, as may be desired.

By the employment of my improved apparatus the brush-coat of the oil-cloth may be marked, scored, or ribbed, so as to present a handsome and highly-finished appearance, so as to form a large portion of the design when printed or finished, enabling me to put into the market an article having an appearance equal to the best oil-cloth as heretofore made, and at considerable less expense.

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

1. A roller made up of a series of disks, separated by washers, for marking, ribbing, or scoring the brush-coat of oil-cloth, in combination with a swinging paint or smoothing

knife for regulating the thickness of the brush-coat, substantially as described.

2. The combination of the sliding frame, the marking, ribbing, or scoring roller, and the cushion below the same, as and for the purpose herein set forth.

3. The combination of the sliding frame and lever for elevating the same, and regulating the pressure upon the face or brush-coat of oil-cloth, with the marking, ribbing, or scoring roller, and one or more adjustable paint or smoothing knives, substantially as described.

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

Witnesses:

AMOS WILDER.

JAMES L. NORRIS,
ALBERT H. NORRIS.