(No Model.) 2 Sheets—Sheet 1.

A. K. NESBITT.

PAINTING MACHINE.

No. 350,384. Patented Oct. 5, 1886.

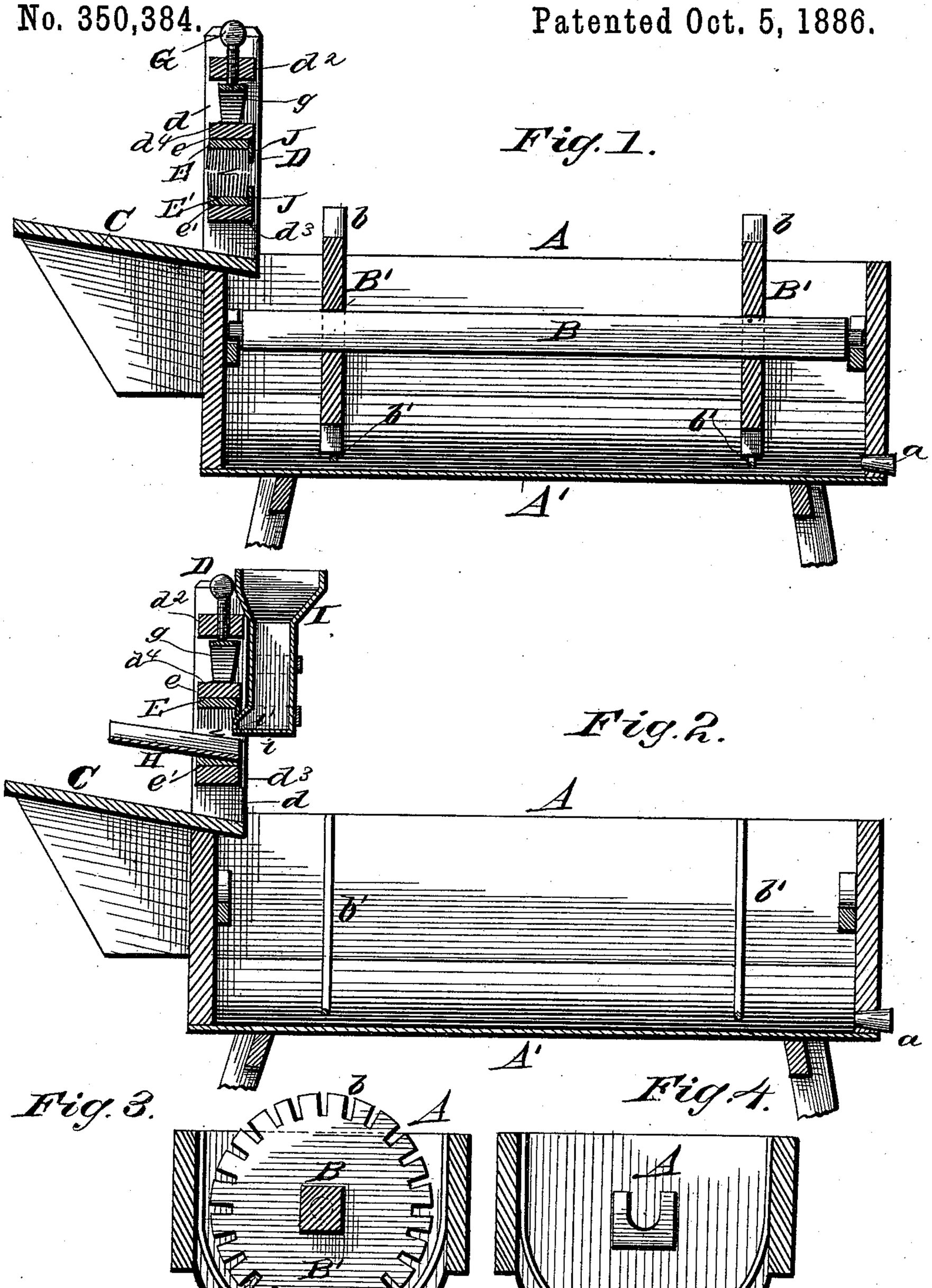

Fig. 1.

Fig. 2.

Fig. 3.

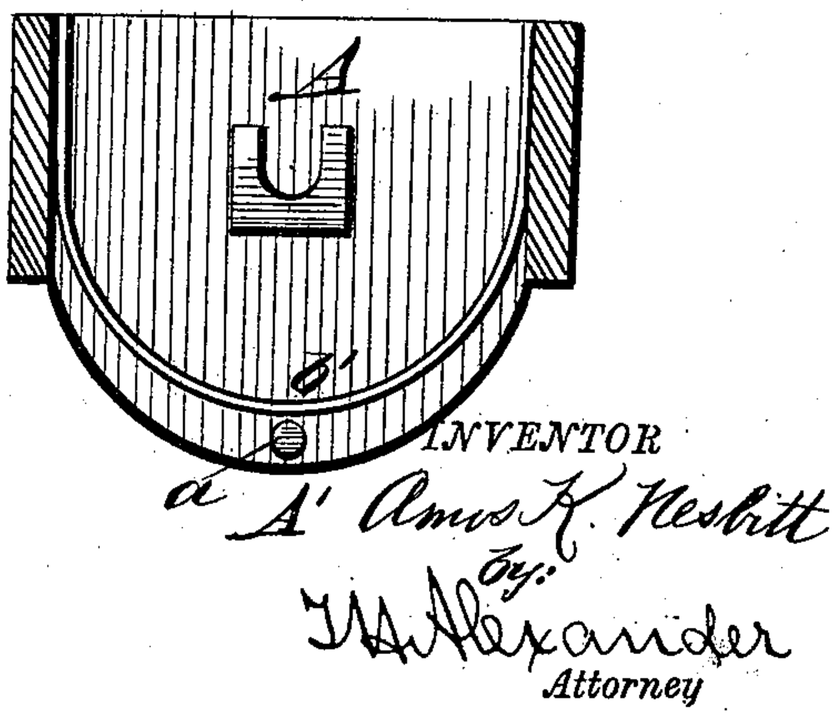

Fig. 4.

WITNESSES

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(No Model.) 2 Sheets—Sheet 2.

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Fig. 5.

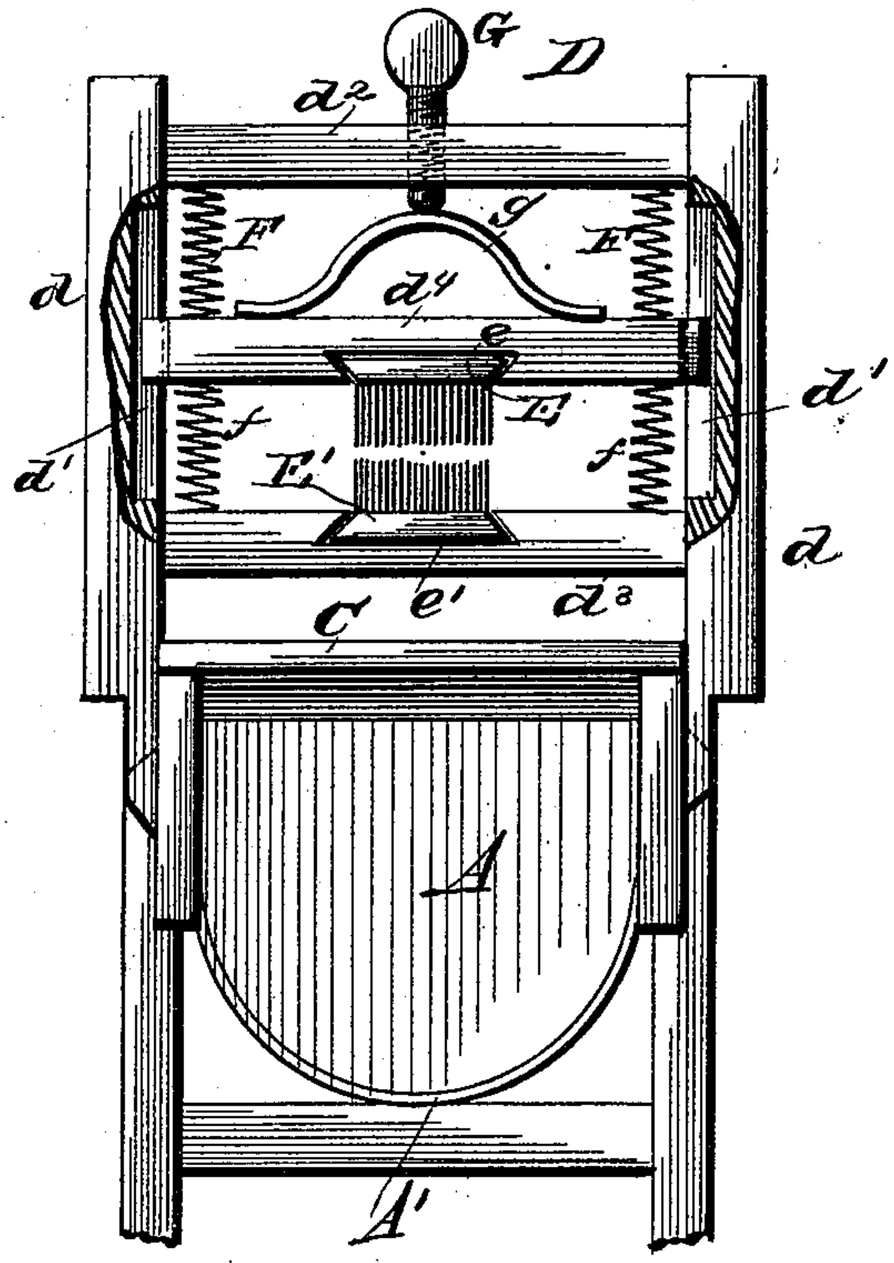


Fig. 6.

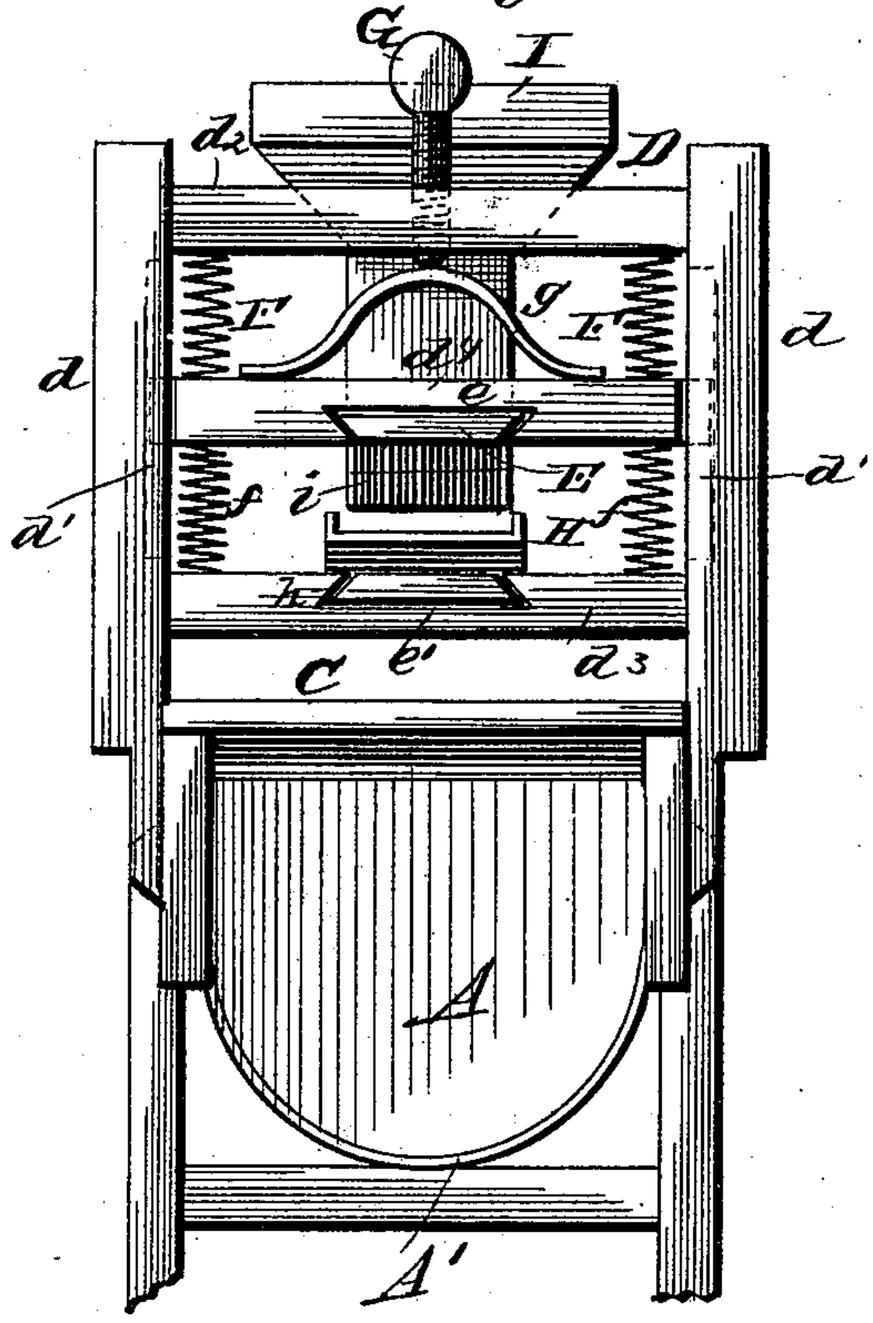


Fig. 7.

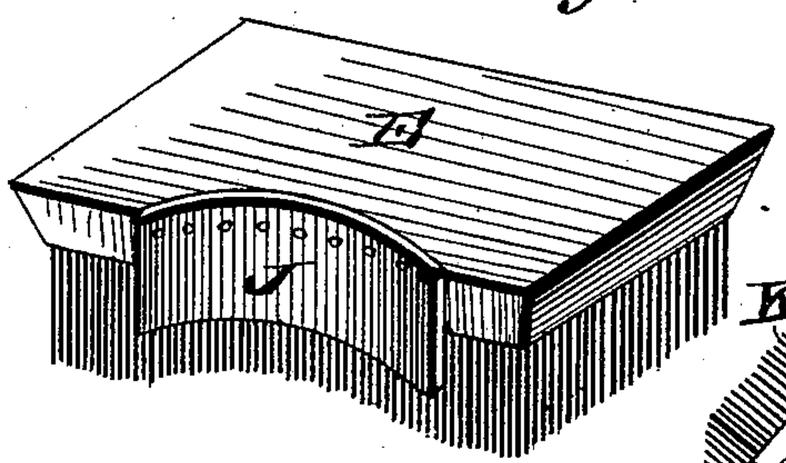


Fig. 8.

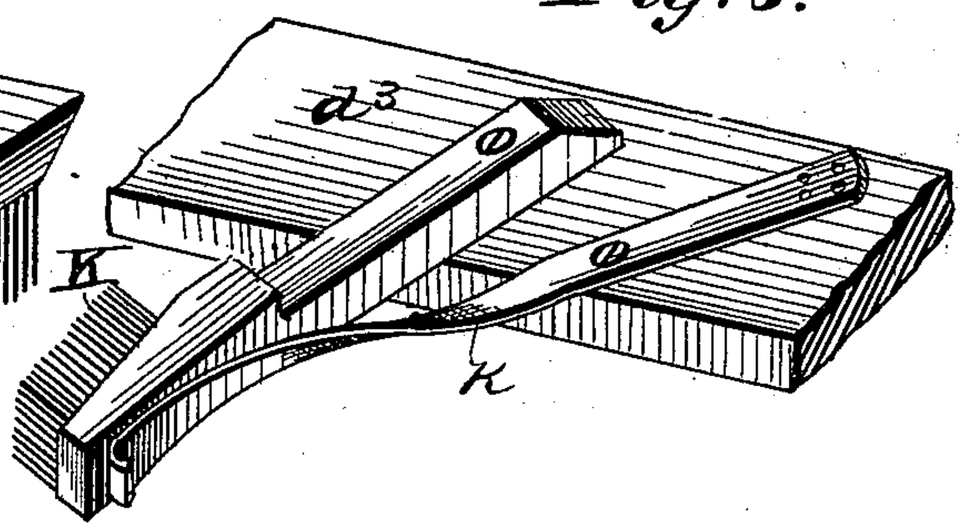
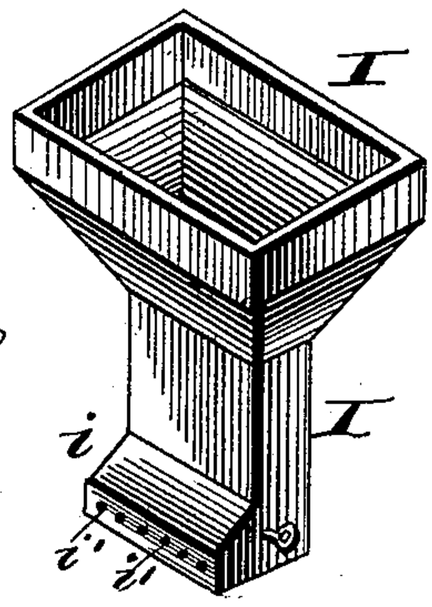


Fig. 9.



WITNESSES

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UNITED STATES PATENT OFFICE.

AMOS KEENY NESBITT, OF ALTON, ILLINOIS, ASSIGNOR OF ONE-FOURTH TO HARRY B. STARR, OF SAME PLACE.

PAINTING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 350,384, dated October 5, 1886.

Application filed March 20, 1886. Serial No. 195,974. (No model.)

To all whom it may concern:

Be it known that I, AMOS KEENY NESBITT, of Alton, in the county of Madison and State of Illinois, have invented certain new and useful Improvements in Painting-Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification.

This invention relates to improvements in painting-machines, being an improvement on a patent granted to me on the 6th day of October 1885, and numbered 327,815.

The object of the invention is to apply paint, varnish, or other decorative or preserving liquid to fence palings, strips, wires, &c., thus much hastening the operation of painting and similar operations.

The invention consists in the construction and novel arrangement of parts hereinafter described, and pointed out in the appended claims.

Referring to the accompanying drawings, Figure 1 is a vertical longitudinal section of my improved painting-machine. Fig. 2 is a similar view of a modification. Fig. 3 is a transverse vertical section of Fig. 1. Fig. 4 a similar view with the reel removed. Fig. 5 is an end elevation partly in section. Fig. 6 is a similar view showing a modification. Fig. 7 is a perspective of one of the brushes. Fig. 8 is a perspective view of a side painting-brush. Fig. 9 is a perspective of the paint-receptacle.

A designates the frame of the machine supported upon proper legs, and having a trough, A′, with a semi-cylindrical bottom lined with metal, preferably galvanized iron. The end of the trough A′ is provided with a valve, *a*, to draw off the paint from said trough when necessary.

B is a shaft having its end journaled in end pieces of the trough and turning therein concentrically with its semi-cylindrical bottom.

B′ B′ are disks secured upon and turning with the shaft B, and provided with the serrations or teeth *b* on their edges. The said disks are situated, respectively, near the ends of the trough A′.

b′ b′ are wires passing under the disks and concentric therewith, and having their ends secured to the main frame.

C is an inclined table at the end of the trough opposite the valve *a*, the inclination of said table being downward toward said trough.

D is a rectangular vertical frame rising from the main frame at the junction of the inclined table and trough. The said frame consists of the vertical side bars, *d d*, having the longitudinal grooves *d′* on their inner surfaces, the transverse upper and lower bars, d^2 d^3, respectively, and the movable transverse bar d^4, having its ends traveling in the grooves *d′*. The bars d^4 and d^3 have central notches or recesses, *e e′*, on the facing surfaces, which notches are dovetailed to receive and hold the correspondingly dovetailed frames of the brushes E E′, respectively. The bar d^4 has between it and the bar d^2, near the ends of the same, the coiled springs F, and between itself and the bar d^3 the similar springs, *f f*. The said springs aid in maintaining the position of the bar d^4.

G is an adjusting-screw passing through a threaded central opening in the bar d^2, and impinging on the spring *g*, which rests upon the bar d^4. By means of said screw and spring the frames, with the brushes, are held in contact with the work, and their pressure may be varied at will.

H is an inclined draining trough or board, having a dovetailed projection, *h*, on its back, adapted for insertion in the notch *e′* when the brush E′ is removed therefrom and when it is only desired to paint one side of the paling.

I is a paint-receptacle adapted to be secured to the frame D and used in connection with the draining-board when only one side of a pailing is to be painted. The upper portion of said receptacle is hopper-shaped, and it has at its lower end a foot, *i*, provided with the escape holes or perforations *i′ i′*, and between which and the draining-board the palings pass.

The mode of operation is as follows: When the palings are to be painted the trough A′ is partially filled with paint, the palings are placed with their edges between the serrations of the disks B′ and the shaft B rotated so as to pass the palings through the paint. They are then removed and passed between the brushes which wipe off the superfluous paint and properly distribute that remaining. The super-

fluous paint escapes into the trough. The brushes have secured to their sides rubber fenders J J, which regulate the manner in which the palings pass between the brushes, and also tend to keep the bristles in position. When the palings are to be painted on one side only the paint-receptacle I is attached to the frame D, as described, and the draining-board to the bar d^3. The paint then flows out of the perforations i' onto the upper surface of the palings and is distributed by the upper brush, E', the draining-board carrying the superfluous paint to the trough A'. Where it is desired to paint more perfectly the edges of the palings, small brushes K are pivoted upon the upper surface of the bar d^3 on each side of the brush E', and are pressed into contact with the edges of the palings by the springs k secured to the bar d^3, as shown.

Having described my invention, I claim—

1. In a painting-machine, the combination of the paint-trough having the semi-cylindrical bottom, the shaft rotating thereon, the toothed disks secured to the shaft, the wires passing below said disks concentric therewith, and the adjustable brushes attached to the frame of the machine.

2. In a painting-machine, the combination of the frame of the machine, the paint-receptacle capable of attachment thereto, the bar d^1, adjustable upon the frame D by means of a spring and adjusting-screw, the brush secured to said bar d^1, and the draining-board secured to the lower part of the frame D, substantially as specified.

3. The painting-machine composed of the main frame provided with the trough A', the inclined table C, the frame D, secured to the main frame at the junction of the paint-trough and inclined table, the detachable brushes E E', provided with the fenders J J, the pivoted spring-controlled side brushes, K, the shaft rotating in the paint-trough, the toothed disks thereon, the detachable paint-receptacle, and the detachable draining-board, all constructed and arranged substantially as and for the purposes specified.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

AMOS KEENY NESBITT.

Witnesses:

HARRY B. STARR,

J. W. WARREN.