

G. F. WRIGHT.

Improvement in Machines for Painting Wire-Cloth.

No. 130,350.

Patented Aug. 6, 1872.

Fig. 1.

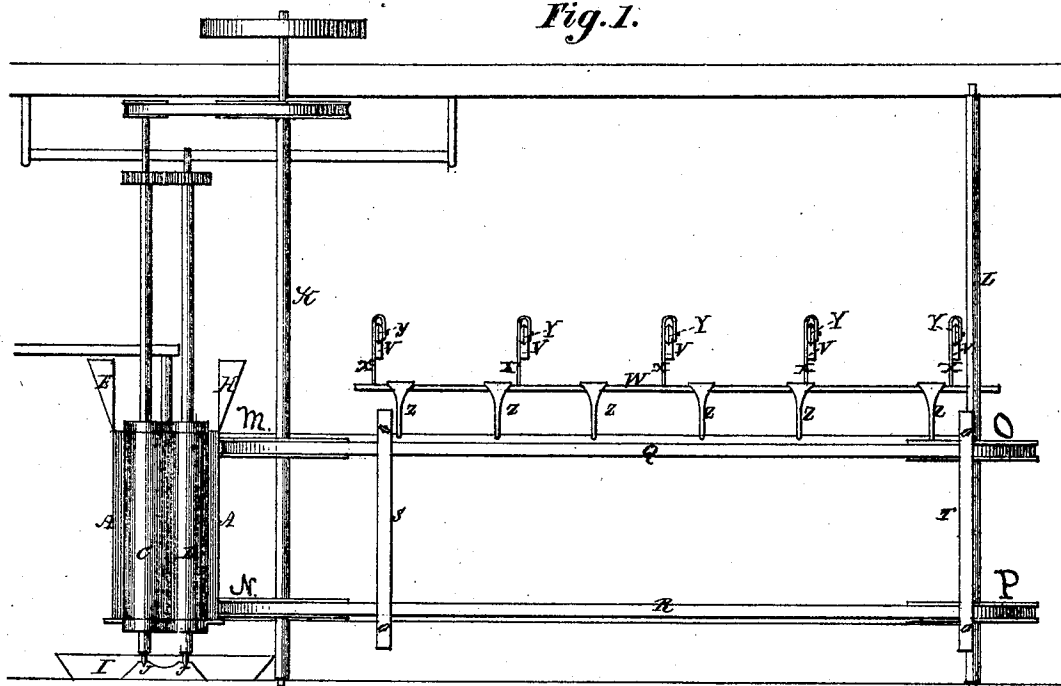


Fig 2.

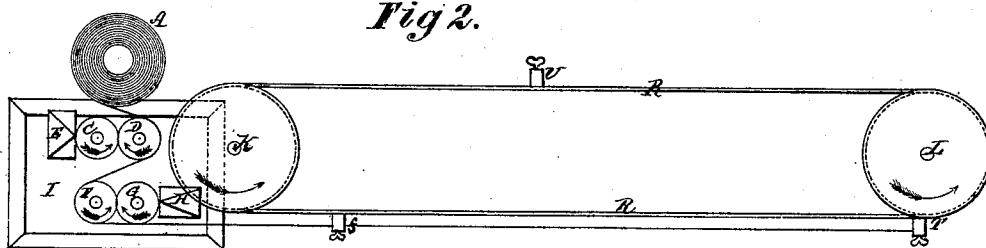
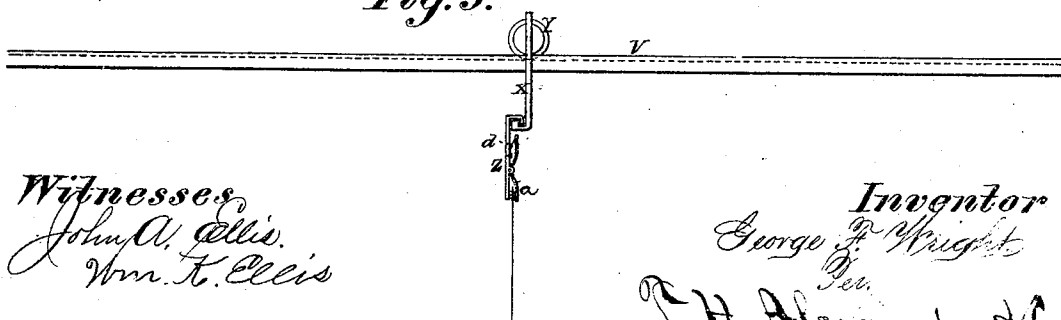


Fig. 3.



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UNITED STATES PATENT OFFICE.

GEORGE F. WRIGHT, OF CLINTON, MASSACHUSETTS.

IMPROVEMENT IN MACHINES FOR PAINTING WIRE-CLOTH.

Specification forming part of Letters Patent No. **130,350**, dated August 6, 1872.

SPECIFICATION.

To all whom it may concern:

Be it known that I, GEO. F. WRIGHT, of Clinton, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Machinery for Painting and Figuring Wire-Cloth, &c.; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon, which form a part of this specification.

The nature of my invention consists, first, in an improved process of painting and printing wire-cloth; and, second, in the construction and arrangement of a machine for carrying out said process, all of which will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a side elevation of my machine, and Fig. 2 is a plan view of a part of the same. Fig. 3 is a side view of one of the hanging devices for hanging and carrying the painted wire-cloth.

A represents a roll of unpainted wire-cloth set upon end on a revolving platform, B. Near the wire-cloth roll A are two small perpendicular rollers, C and D, the former of which is made of iron finished very true and smooth, and the other is made of felt, the same as described in a patent heretofore granted to me. E represents a paint-pot provided with a small outlet at the bottom, which is arranged so as to communicate paint to the surface of the iron roller C. Near the rollers C and D are two other similar rollers—a felt roller, F, and an iron roller, G—having also a paint-pot, H, made and arranged in the same manner as described for the paint-pot E. Below all these rollers is a large pan, I, intended to catch and retain all the paint which will run down from the rollers. In this pan are steps J, in which the lower journals of the rollers rest. K and L are upright shafts, having grooved pulleys M, N, O, and P secured to them, and around said pulleys are two endless belts, Q and R, having secured to them bars S, T, and U.

These bars are intended to be about fifty feet and three inches apart, more or less, and upon each of them is fitted a cap, with a thumb-screw at each end to fasten it on. Horizontally outward from the endless belts Q R is formed the drying-room, in which, at a suitable height, are beams V V, running transversely with said belts; and at a suitable distance below said beams is a track, W, running parallel with the wire-cloth and belts and transversely with the beams. The track W is supported by iron arms X X, having each a roller, Y, secured to its upper end to run in the grooves in the upper edges of the beams V V. Hanging upon said track are hooks Z Z, which are provided with needle-points on one side at the lower end, and pivoted to each of said hooks on the back side is a jaw, a, provided at the lower end with needle-points and a spring, d, at the upper end, which serves to press the needle-points in the jaw against those on the hook.

The operation of my machine is as follows: By the use of suitable pulleys and belts all the shafts and rollers of the machine are set in motion. The roller C is turned against the felt roller D and carries paint to it from the paint-pot E; and said two rollers being set in close proximity to each other, the meshes of the felt roller are evenly filled with paint. The wire-cloth, as it comes from the roll a, wraps half way around said felt roller, and receives a sufficient quantity of paint to paint one side, but not enough to fill the meshes of the wire-cloth, thus requiring no brushing, as in other machines. The wire-cloth then passes around the felt roller F, and receives paint in the same way on the other side, which completes the process.

Thus it will be seen that the wire-cloth receives the required amount of paint and no more, while in the machines heretofore most generally used, when the wire-cloth is dipped into the paint the meshes are filled with the same, and this superfluous paint has to be removed by brushes.

The end of the wire-cloth is then secured between the bar S and its cap, and as it passes along the hooks Z Z are put on, and the needle-points at the lower end seize the cloth by the upper edge and support it until another

bar comes around, and another cap is secured upon it. Then the wire-cloth is cut off at that bar and liberated at the other end, when it is run across the room upon the beams V V, and another length is cut off.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. As an improvement in the art of painting wire-cloth, laying the paint upon both sides of the cloth, substantially as described.

2. In a machine for painting wire-cloth, the arrangement of the paint-rollers on end or perpendicularly, as herein set forth.

3. The combination of the iron rollers C G, felt rollers D E, and paint-pots E H, all constructed and arranged substantially as and for the purposes herein set forth.

4. The endless belts Q and R, provided with bars S, T, and U, each bar having a cap fastened by thumb-screws, substantially as and for the purposes herein set forth.

5. The combination of the grooved beams V V, arms or bars X X with rollers Y Y, track W, and hooks Z Z with jaws *a a*, all constructed and arranged to operate substantially as and for the purposes herein set forth.

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

GEO. F. WRIGHT.

Witnesses:

GEO. P. NEWHALL,
JOHN T. DARNE.