

J.J. Wiggins Mach^{re} for Manufacturing
Roofing. PATENTED APR 11 1871

113604

Fig. 1.

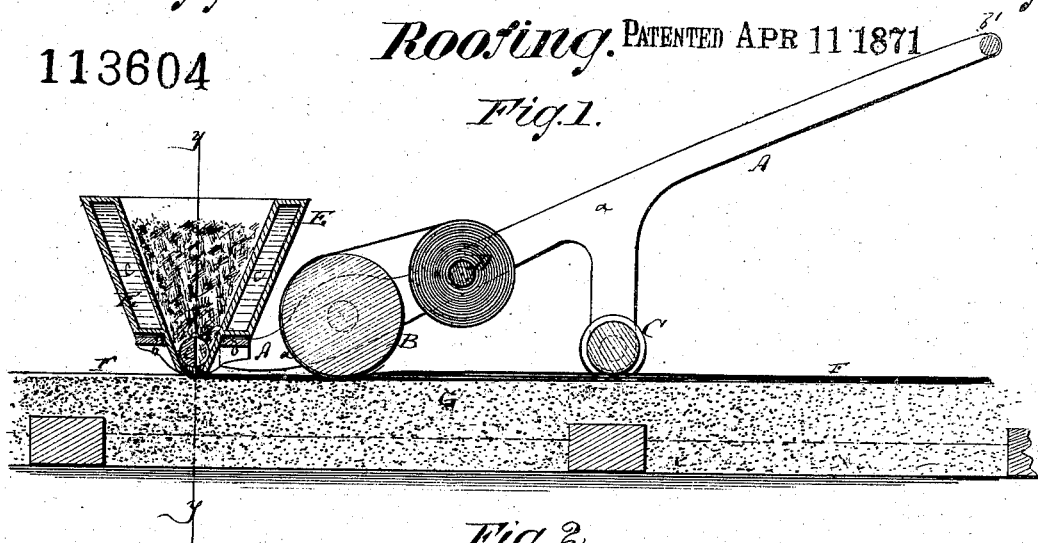


Fig. 2.

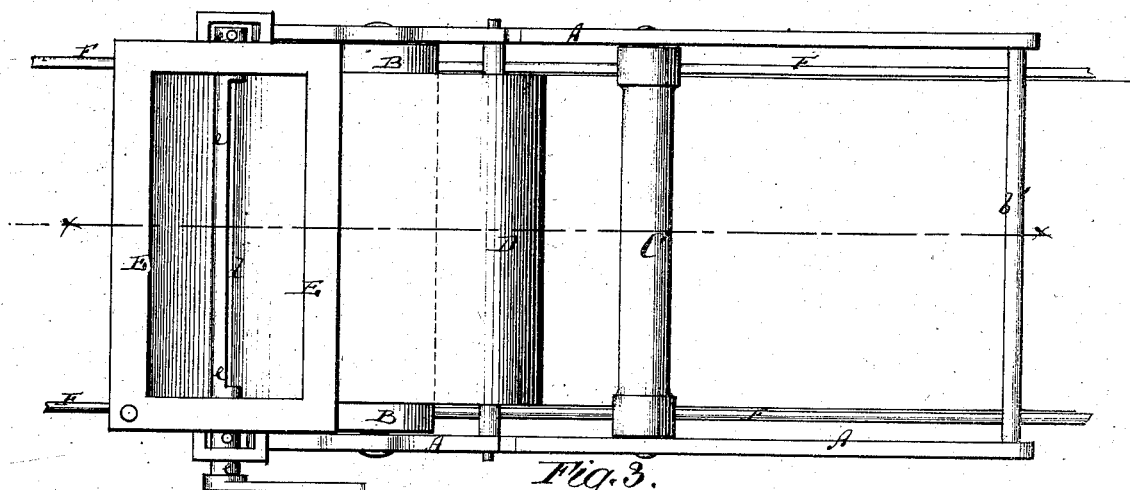
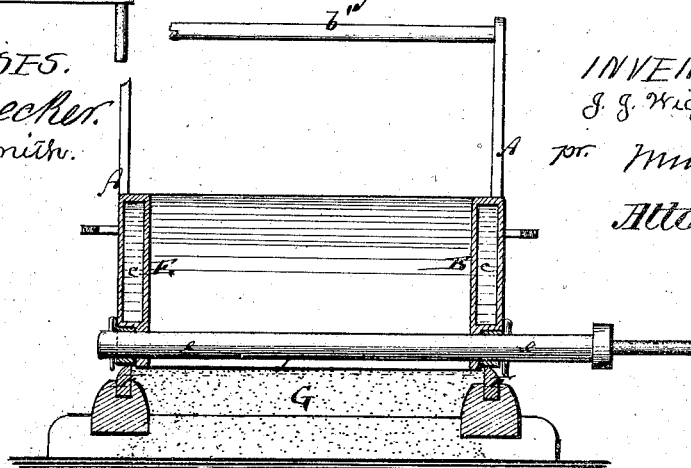


Fig. 3.



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JAY J. WIGGIN, OF NEW YORK, N. Y.

Letters Patent No. 113,604, dated April 11, 1871.

IMPROVEMENT IN MACHINES FOR THE MANUFACTURE OF COMPOSITION-ROOFING.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, JAY J. WIGGIN, of New York city, in the county and State of New York, have invented a new and improved Machine for Manufacturing Composition-Roofing; and I do hereby declare that the following is a full, clear, and exact description thereof which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

Figure 1 represents a vertical longitudinal section of my improved machine, the line *x x*, fig. 2, indicating the plane of section.

Figure 2 is a plan or top view of the same.

Figure 3 is a vertical transverse section of the same taken on the plane of the line *y y*, fig. 1.

Similar letters of reference indicate corresponding parts.

This invention relates to a new apparatus for applying roofing compounds to paper, felt, canvas, or other fabric, and consists in the use of a movable vehicle carrying a distributing-trough and suitable rollers for feeding and laying the paper to and upon the compound that has from the trough been discharged upon a bed of sand, gravel, or other material.

The invention consists, also, in a new form of valve applied to the trough, and in such a construction of the latter that steam or hot water can be kept around the roofing material to retain the same in the proper consistency.

A in the drawing represents the frame of my apparatus. It contains two side pieces *a a*, which are held apart by cross-pieces *b b*, of which the latter is at the rear end and somewhat elevated, to constitute the handle for pushing the machine.

B is a large roller hung transversely in the frame A; C is a smaller roller hung in A, behind the roller B; and

D is the roller from which the fabric is unwound during the spreading process.

E is a transverse trough or vessel secured upon the front end of the frame A. It has a longitudinal slot, *d*, in the bottom, which can be closed or more or less opened by a semi-cylindrical valve, *e*, that is hung in said vessel, as shown.

The sides of the vessel E are made double, so that a hot-water or steam-chamber, *c*, is formed therein, as shown.

The compound to be spread on the paper or other fabric is placed within the trough, and the valve *e* opened to the desired extent. The fabric wound on the roller D is laid over the large roller B, and then back under C, as shown.

The apparatus rests on fixed rails F F, between which there is a bed, G, of sand, properly leveled and prepared.

While the machine is being moved forward on the track the mixture is deposited from the trough upon the sand-bed, and then the paper is spread evenly over the compound and pressed thereon by the rollers B C. The machine is thus moved ahead until the fabric has been entirely unwound from the roller D and the lower surface of the same properly coated with the compound, to which it adheres when pressed down by the rollers.

In this manner roofing material is spread with great regularity and rapidity. The hot water in the hollow sides and ends of the trough retains the compound at the desired consistency and causes it to flow easily and in proper quantity.

Having thus described my invention,

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

1. The machine herein described for covering fabric with roofing-compound, the same consisting of the frame A, rollers B C D, and discharging-trough E, substantially as set forth.

2. The semi-cylindrical valve *e* arranged within the distributing-trough E, substantially as and for the purposes herein shown and described.

3. The trough E, containing the valve *e*, and provided with the hollow sides and ends for the reception of hot water or steam, as specified.

JAY J. WIGGIN.

Witnesses:

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