M. FOWLER.

MACHINE FOR SEPARATING HOOKS AND EYES.

No. 45,238. Patented Nov. 29, 1864.

Fig. 1.

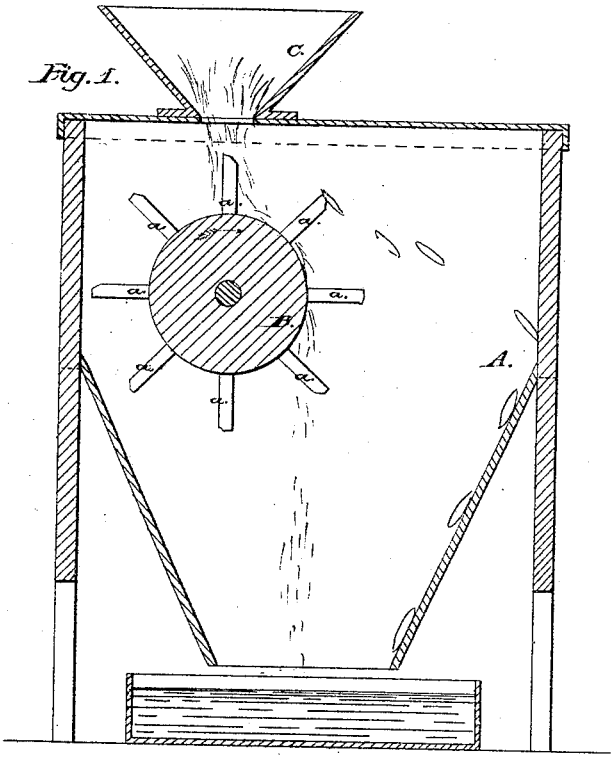
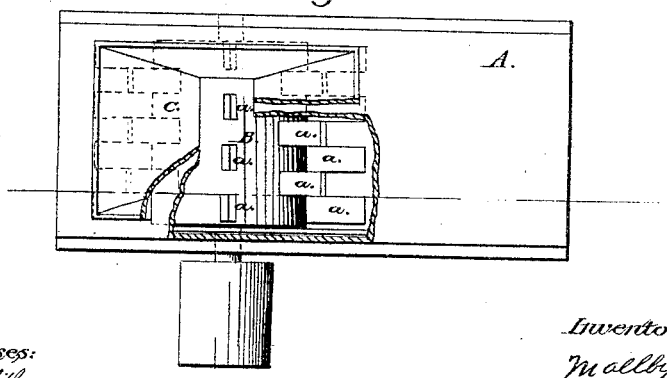


Fig. 2.



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UNITED STATES PATENT OFFICE.

MALTBY FOWLER, OF NORTHFORD, CONNECTICUT.

IMPROVEMENT IN MACHINES FOR SEPARATING HOOKS AND EYES.

Specification forming part of Letters Patent No. **45,238**, dated November 29, 1864.

To all whom it may concern:

Be it known that I, MALTBY FOWLER, of Northford, in the county of New Haven and State of Connecticut, have invented a new and Improved Machine for Separating Hooks and Eyes and other Articles after being Plated; 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 drawings, making a part of this specification, in which—

Figure 1 is side sectional view of my invention, taken in the line *x x*, Fig. 2. Fig. 2 is a plan or top view of the same, partly in section.

Similar letters of reference indicate like parts.

This invention relates to a new and improved machine for separating hooks and eyes and other articles after being plated, in order to prevent the articles being soldered together by the plating as the latter cools.

Hooks and eyes and various other small articles are plated by simply putting the composition which forms the plating or coating in a vessel with the articles, the former when fused adhering to the articles and covering the same. It is necessary therefor to separate the articles after being plated or coated before the latter become cool, in order to prevent the articles being soldered together by the plating or coating. To effect this I place a cylinder armed with radial teeth or bars within a case or box and below a hopper, into which the plated articles are poured from the vessel in which they were plated or coated, the articles passing from the hopper and coming in contact with the arms or bars of the cylinder, which latter has a rapid rotary or vibrating motion given it to cause the articles to be violently thrown against the sides of the box or case and separated as they fall through the box or case.

A represents a box or case, in which a horizontal cylinder, B, is placed, said cylinder being provided with radial flat teeth or arms *a*, placed in longitudinal rows, the teeth of one row being opposite the spaces between the teeth of the adjoining rows. (See Fig. 2.) On the box or case A, and directly over the cylinder B, there is placed a hopper, C, into which the plated or coated articles are poured directly from the vessel in which they were coated or plated. The cylinder B has a rapid rotary motion given it, and the teeth or arms *a* strike the articles and throw them violently against the sides of the box or case A, which causes them to separate one from the other, and they pass down through the case or box A into a water-box, D, prepared to receive them.

I prefer to have the cylinder B rotated rapidly in one direction, but it may be a vibratory motion—that is to say, turned a part of a revolution in one direction and then in the other—and instead of the teeth *a*, continuous strips may be used, extending the whole length of cylinder B. The same result would be attained in either case.

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

The combination, as above described, in a machine for separating hooks and eyes and similar metallic articles, consisting of a hopper, C, a cylinder, B, with beaters *a*, rotating in a case, A, with a discharging-hopper, and a box containing water, in which the articles are received.

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Witnesses:

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