(No Model.)

2 Sheets—Sheet 1.

T. WILD.

MACHINERY FOR DEPOSITING AND DISTRIBUTING PULVERIZED METAL, &c., ON PAPER.

No. 371,651. Patented Oct. 18, 1887.

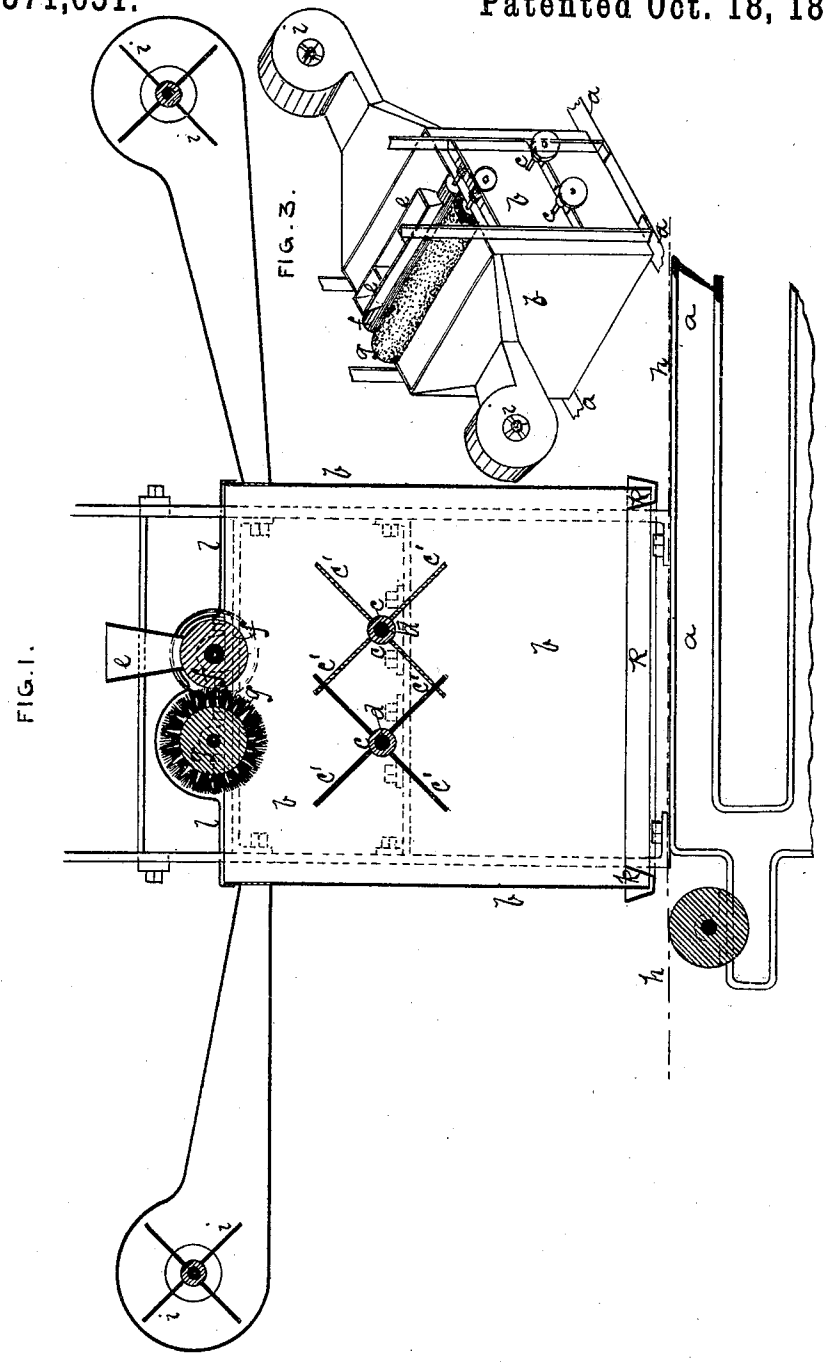


FIG. 3.

FIG. 1.

—INVENTOR—

Thomas Wild

WITNESSES—

J. Bancroft

A. Lowell

N. PETERS. Photo-Lithographer, Washington, D. C.

(No Model.)

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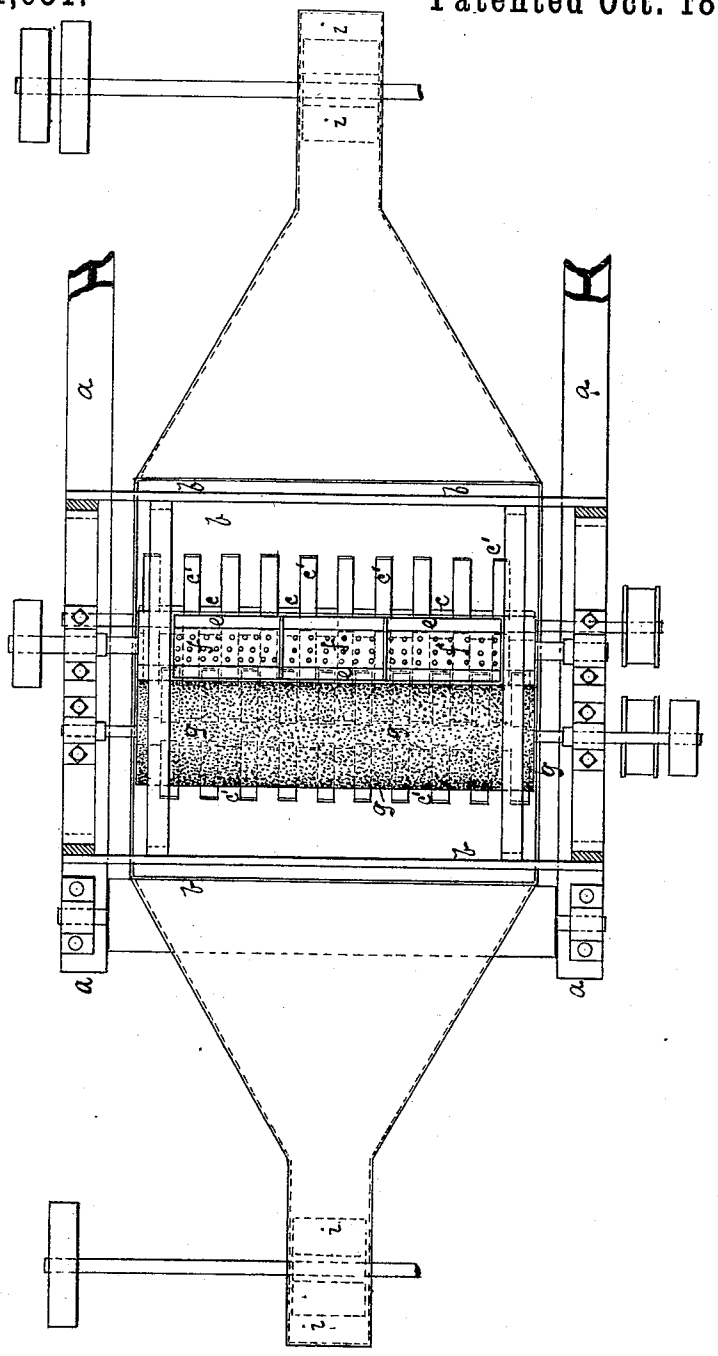


FIG. 2.

WITNESSES— L. M. Harding. T. Dowett

INVENTOR— Thomas Wild

N. PETERS, Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

THOMAS WILD, OF LEEDS, COUNTY OF YORK, ENGLAND.

MACHINERY FOR DEPOSITING AND DISTRIBUTING PULVERIZED METAL, &c., ON PAPER.

SPECIFICATION forming part of Letters Patent No. 371,651, dated October 18, 1887.

Application filed February 7, 1887. Serial No. 226,783. (No model.) Patented in England June 3, 1886, No. 7,466.

To all whom it may concern:

Be it known that I, THOMAS WILD, of Leeds, in the county of York, England, have invented new and useful Improvements in Machinery for Depositing and Distributing Pulverized Metal, &c., on Paper, of which the following is a full, clear, and exact description.

The object of my improvements is to evenly distribute pulverized metal, mica, and other materials over the surface of wall-papers after such paper has been operated upon on a grounding-machine, such grounding-machine being used for laying the different colors on wall and other paper.

Figure 1 is a longitudinal section, Fig. 2 a plan looking at the top, and Fig. 3 a perspective view, of a machine constructed in accordance with my invention.

In a suitable position with regard to the grounding-machine, a portion of which is shown at *a*, I fix a box, *b*, which may be of metal, or a combination of metal and wood, and within it any required number of fans, *c*, mounted on shafts *d*. These are caused to revolve for the purpose of diffusing and keeping in motion the pulverized metal, mica, and other material as it falls into such box *b* from a hopper, *e*. The material in the first instance is taken onto an indented roller, *f*, from the hopper *e*, and from such roller *f* it is thrown into the interior of the box *b* by a revolving brush, *g*. Then, by the constant operation of the fans *c* it is kept thoroughly diffused in the interior, and as the paper *h* passes underneath just after being grounded, colored, or tinted, (such grounding, coloring, or tinting being of a sticky nature,) whatever of the material comes in contact therewith adheres to the surface, and, owing to a thorough diffusion of the material by the movement of the fans, it is evenly distributed over the whole surface of the paper. Various other fans may be placed in any convenient position, as shown at *i*, as best suited for providing additional blast for the thorough diffusion and equal distribution of the pulverized material.

The wings *c'* of the fans *c*, used in the interior of box *b*, are divided into a number of parts and are made to intersect each other, as shown, so as to prevent an accumulation of the pulverized material from accumulating about various surfaces.

In order to prevent accumulated material on the sides of the interior of the box *b* from dropping onto the paper *h* operated upon, I fix a trough, *k*, round the bottom of such box *b* to catch such accumulations as they fall from the sides. I employ the cover *l* for closing up the upper portion of the box *b* and thus preventing the material from escaping. The fans *c* and *i*, roller *f*, and brush *g* are actuated by some suitable motor.

I claim as my invention—

1. The combination of fans *c* and *i*, box *b*, hopper *e*, indented roller *f*, and brush *g*, for depositing and distributing pulverized metal, mica, and other materials onto the paper *h*, such paper having been prepared for the same.

2. The combination, with the box *b*, of trough *k*, for receiving accumulated material as it falls from the sides of the interior of the box *b*.

THOMAS WILD.

Witnesses:
J. N. HARDING,
J. JOWETT.