No. 707,289. Patented Aug. 19, 1902.

C. B. WESTON.

WALL PAPER MACHINE.

(Application filed Apr. 5, 1902.)

(No Model.)

Fig. 1.

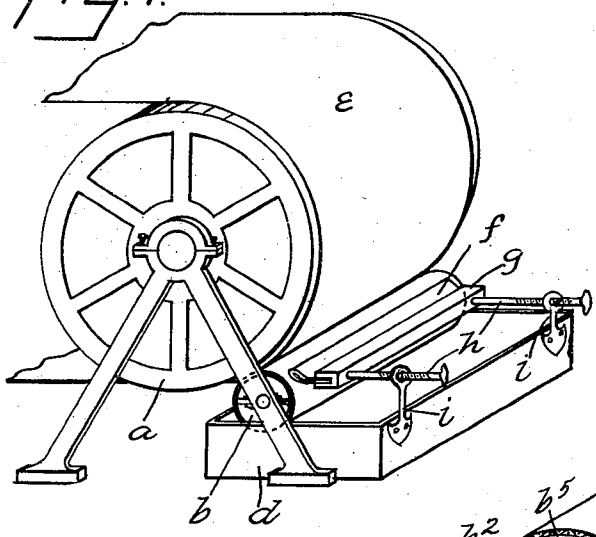


Fig. 3.

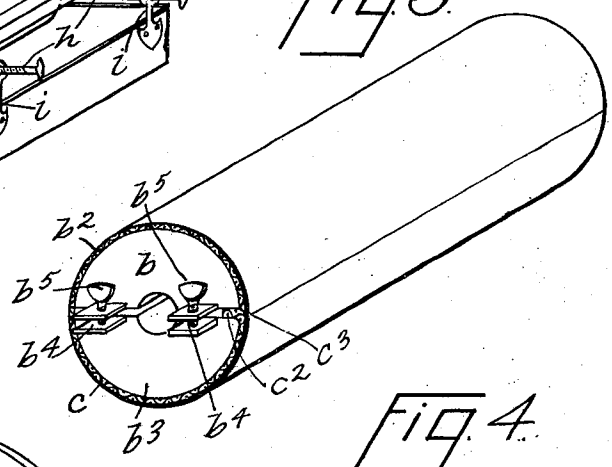


Fig. 2.

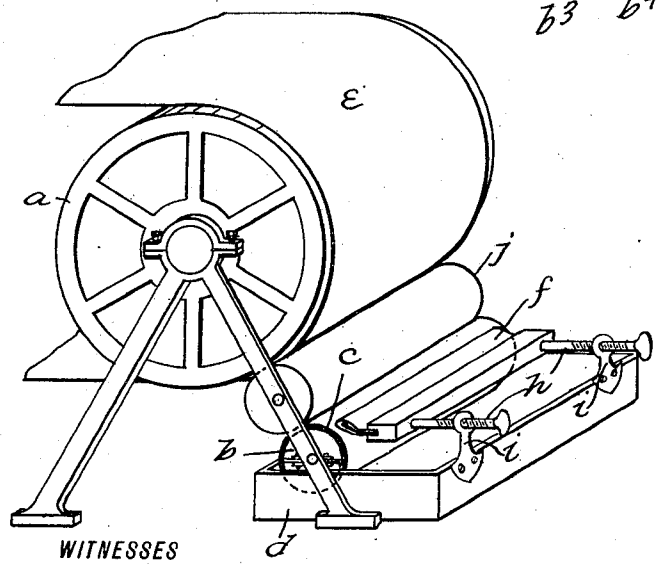
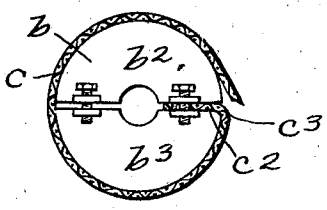


Fig. 4.



WITNESSES

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UNITED STATES PATENT OFFICE.

CHARLES B. WESTON, OF BROOKLYN, NEW YORK.

WALL-PAPER MACHINE.

SPECIFICATION forming part of Letters Patent No. 707,289, dated August 19, 1902.

Application filed April 5, 1902. Serial No. 101,608. (No model.)

To all whom it may concern:

Be it known that I, CHARLES B. WESTON, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Wall-Paper Machines, of which the following is a full and complete specification, such as will enable those skilled in the art to which it appertains to make and use the same.

The object of this invention is to provide improvements in machines for "grounding" and printing wall-paper, the improvements being particularly designed to facilitate the application of the ground coloring or color to the paper and the printing of the paper after the grounding thereof or the ground color is applied thereto; and the invention consists in the means employed for applying the paint or coloring constituting the grounding or ground color to the paper and of printing said paper.

The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, in which the separate parts of my improvement are designated by the same reference characters in each of the views, and in which—

Figure 1 is a perspective view showing the application of my improvement for the purpose of grounding or applying the ground color to the paper; Fig. 2, a similar view showing the application of my improvement for printing the paper after the grounding thereof or after the ground color has been applied thereto; Fig. 3, a perspective view of a paint-roll which I employ, and Fig. 4 an end view thereof.

In the drawings forming part of this specification I have shown at a a cylinder over which strips of wall-paper are passed in the operation of grounding the same, and for this purpose I employ a roller b, which is composed of two similar parts b^2 and b^3, which are semicircular in cross-section and the ends of which are provided with projecting jaws b^4, through which are passed screws b^5, whereby the separate parts of the roller are securely connected.

Around the roller b is placed a covering c, of textile material, and in practice one edge of said covering is inserted between the separate parts of the roller at one side, as shown at c^2, and securely held in position by the clamping of the separate parts of the roller together, and the sheet of material constituting the cover c is then folded around the roller, and the free edge thereof abuts against the fold of said covering at c^3 and makes a smooth and even covering for said roller, as will be readily understood.

The paint constituting the ground coloring of the wall-paper is placed in a trough or other receptacle b, and the roller b is so mounted as to turn therein, and the wall-paper e is passed around the cylinder a in the usual manner, and the roller b is held in contact therewith and revolved by any suitable means. In practice the pan or trough b and the roller d are suitably supported in the frame of the machine, which is not shown, the relative position of said parts being only shown in Fig. 1, and the roller b may be turned by means of its contact with the cylinder a, and in this operation the paint is distributed over the paper e, as will be readily understood. The covering c, of textile material, takes up the paint and applies it to the paper e, and I also provide a scraper or equalizer f, which bears on the roller b and is held by a bar g, and said scraper or equalizer may be adjusted toward or from the roller b by means of a screw-threaded rod h, mounted in supports i. The scraper or equalizer f distributes the paint equally over the roller b and removes therefrom any surplus paint, and by means of this operation the ground coloring of the paper may be quickly and easily applied thereto.

In Fig. 2 of the drawings I have shown my improvement applied in the operation of printing wall-paper, and for this purpose I place between the roller b and the cylinder a a printing cylinder or roller j, on which the pattern to be printed on the paper e is formed, and in this operation the paint is applied to the printing cylinder or roller j and transferred thereby to the paper e as it passes around the cylinder a.

It will be apparent that my improvement may be applied to any kind or class of machines for grounding and printing wall-paper, and the roller b and printing roller or cylinder j may be supported in any desired man-

ner, as may also the pan or trough *d*, and any suitable means may be employed for adjusting the scraper or equalizer *f*, and the said scraper or equalizer may be composed of any desired material, but is preferably composed of stiff textile material folded as shown.

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

1. In a machine for "grounding" and painting wall-paper, a cylinder around which the paper is passed, a printing-roller supported adjacent thereto and adapted to bear thereon, a paint-roller supported adjacent to the printing-roller and adapted to bear thereon, said paint-roller being supported in a trough or other receptacle, substantially as shown and described.

2. In a machine for "grounding" and painting wall-paper, a cylinder around which the paper is passed, a printing-roller supported adjacent thereto and adapted to bear thereon, a paint-roller supported adjacent to the printing-roller and adapted to bear thereon, said paint-roller being supported in a trough or other receptacle, and being also provided with an adjustable scraper or equalizer which is adapted to bear thereon, substantially as shown and described.

3. In a machine for "grounding" and painting wall-paper, a cylinder around which the paper is passed, a paint-applying roller composed of two longitudinal parts secured together and provided with a covering of textile material, and a scraper and equalizer composed of textile material, and supported adjacent to said roller and adapted to bear thereon and adjustable with reference thereto, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 1st day of April, 1902.

CHARLES B. WESTON.

Witnesses:
E. N. ROBER,
WILLIAM VAN GRIEWEL.