

W. H. BURNS.
Graining-Roller

No. 165,708.

Patented July 20, 1875.

Fig. 1.

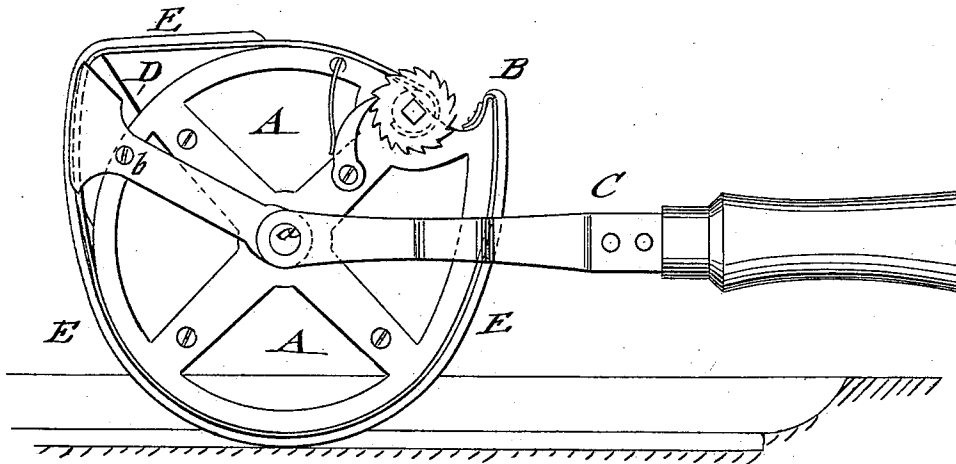
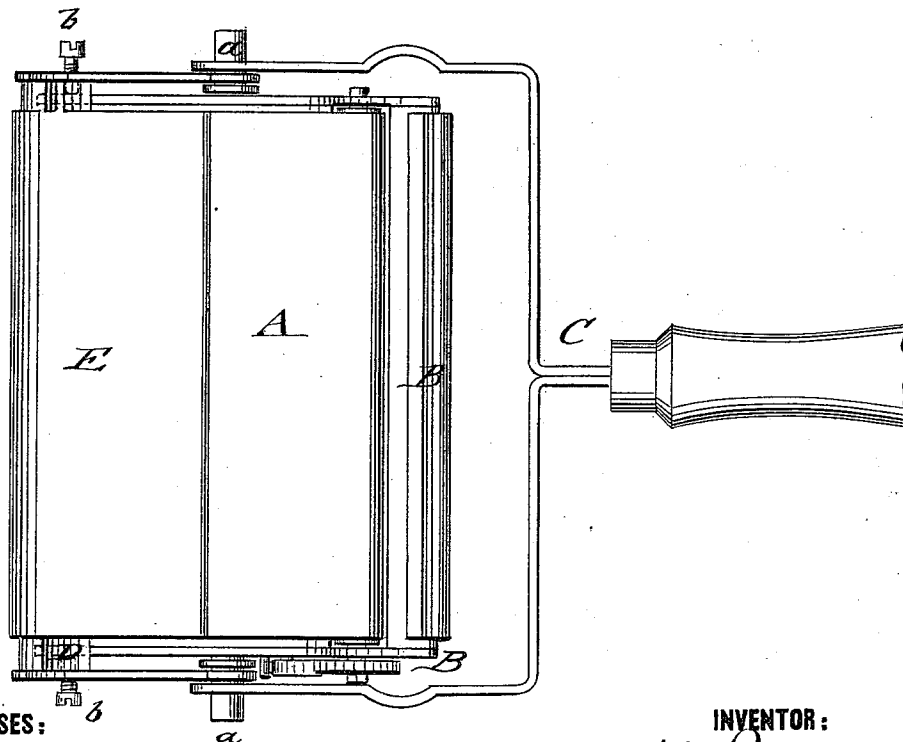


Fig. 2.



WITNESSES:

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INVENTOR:

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UNITED STATES PATENT OFFICE.

WILLIAM H. BURNS, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN GRAINING-ROLLERS.

Specification forming part of Letters Patent No. **165,708**, dated July 20, 1875; application filed March 29, 1875.

To all whom it may concern:

Be it known that I, WILLIAM H. BURNS, of Chicago, in the county of Cook and State of Illinois, have invented a new and Improved Graining-Roller, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a side elevation of my improved graining-roller, and Fig. 2 a top view of the same.

Similar letters of reference indicate corresponding parts.

The object of my invention is to provide a painter's graining-roller, by which panels of different sizes may be readily and conveniently grained in any imitation of wood or other style.

The invention consists of a movable shoulder of the roller below the flexible transferring-belt that is stretched by suitable mechanism over shoulder and roller, for the purpose of adjusting the circumference of the roller, from shoulder edge to stationary roller edge, to the exact width or size of the panel.

In the drawing, A represents a roller, of any suitable material and size, for graining panels, being provided with an immovable projecting shoulder, B, at one end, for entering with its edge into the corner of the panels, wainscoting, &c., which feature has heretofore been patented to me. Roller A turns freely by its central pivot-pins or shafts *a* in handle-frame C, while a movable shoulder, D, of triangular or other shape, swings by its radial side arms D' on the same roller-pivots along the circumference of the roller, being at its base or lower

part concaved to conform to the shape of the same. The movable shoulder D is attached by set-screws *b* to the sides of roller A, and may be set to any point along the circumference of the same, for being adjusted to the size of any panel. The movable shoulder D is designed to enter exactly into that corner of the panel opposite the one entered by the immovable shoulder B, transmitting by a smooth flexible belt, E, formed of india-rubber or printers' composition on canvas, cloth, leather, or of other suitable material, any desired graining to the panel. The flexible transferring-belt E is stretched tightly around roller and shoulders by means of a crank, ratchet, and spring-pawl, in the usual manner, taking up the paint from a stereotyped or other transfer plate, and allowing the rapid and economical graining of panels of different sizes from corner to corner by one rotation of the roller.

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

As an improvement in painters' graining-rollers, the combination, with a roller having a stationary projecting shoulder, of a movable shoulder for adjusting the stretched transmitting-belt to any width of panel, substantially in the manner and for the purpose set forth.

WILLIAM H. BURNS.

Witnesses:

H. S. WITMAN,
J. L. REED.