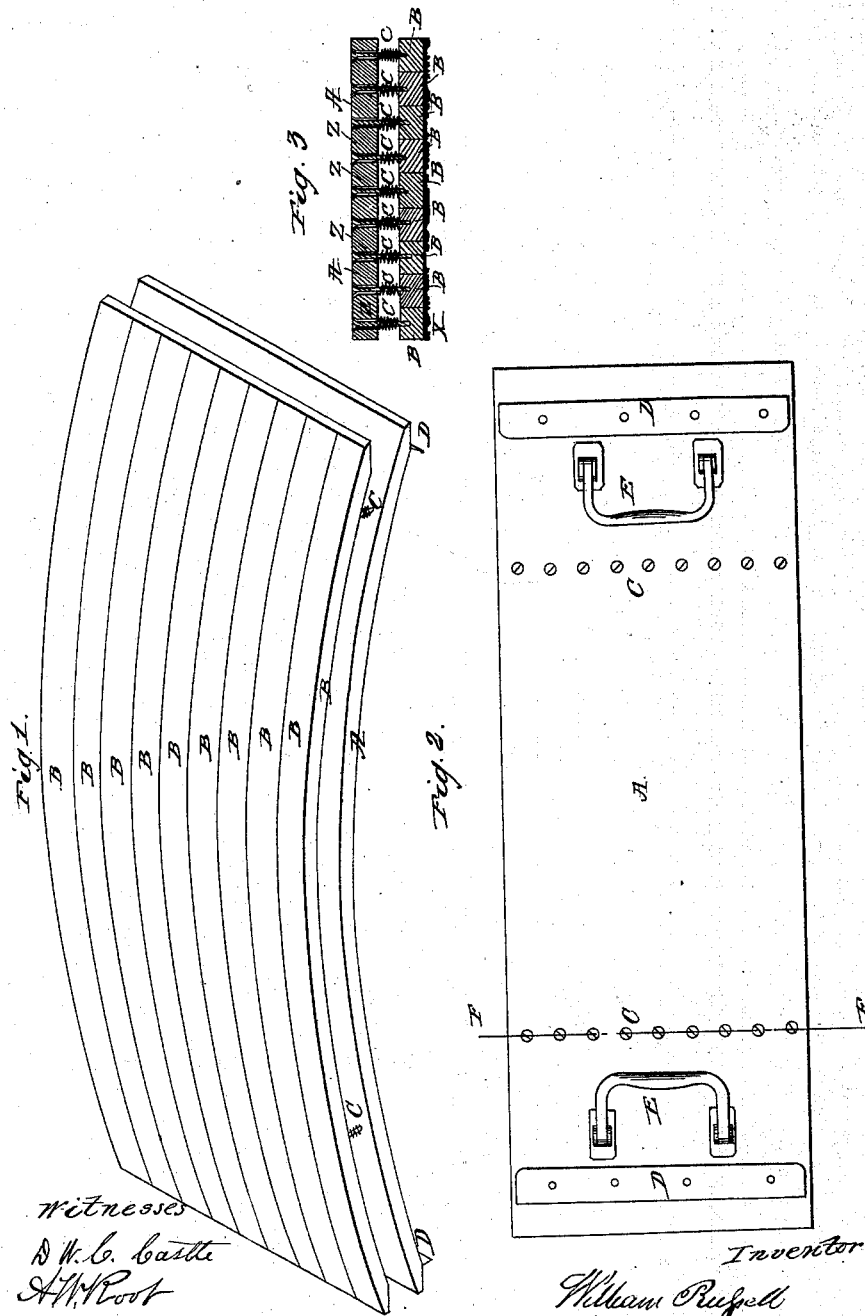


*W. Russell,*

*Graining Instrument.*

*N<sup>o</sup> 27,339.*

*Patented Apr. 18, 1865.*



# UNITED STATES PATENT OFFICE.

WILLIAM RUSSELL, OF BELOIT, WISCONSIN.

## GRAINING-INSTRUMENT.

Specification forming part of Letters Patent No. 47,339, dated April 18, 1865; antedated December 14, 1864.

*To all whom it may concern:*

Be it known that I, WILLIAM RUSSELL, of the city of Beloit, county of Rock, and State of Wisconsin, have invented a new and useful improvement in machines or tools for graining or painting on level or uneven surfaces in imitation of wood by the attachment of an elastic or rubber plate having the proposed design in relief to a curved-shaped piece of wood in sections attached to a solid back board by screws and springs, so as to be adjustable to enable it to be used either on level or uneven surfaces; and I do hereby declare that the following is a full and exact description thereof, reference being had to accompanying drawings, making part of this specification.

In describing my invention I make reference to the accompanying drawings, in which Figure 1 is a perspective inverted view of my invention, with the elastic type or design plate removed so as to show the construction of the curved sectional yielding pieces B B; Fig. 2, a plan or top view without the elastic plate; Fig. 3, a cross-section taken in the line of F F of Fig. 2, showing the elastic plate X in section.

Similar letters of reference indicate like parts in all the figures.

In Fig. 1, B B are sectional or narrow pieces of wood of a curved form, upon the convex faces of which the elastic or rubber plate upon which the design formed in relief for painting or graining on level or uneven surfaces in imitation of wood is fastened by having the ends turned back over the ends of said curved pieces B B, and the solid piece A, with hooks at each end which lock into the clamps D D. C C are screws and springs fastened into the pieces B B, and passing loosely through holes Z Z in the back piece, A. D D are clamps to fasten the elastic or rubber plate on the convex side of the curved pieces B B, it having the proposed design in relief for graining or painting in imitation of wood on level or uneven surfaces, as shown.

In Fig. 2, A is the back part or solid piece of wood, also in curved shape, as shown. E E are handles to hold with in operating the machine or tool.

Fig. 3 is a cross-section view taken in the

line of F F, Fig. 2. A is the back or solid piece; Z Z, holes through which the screws with springs C C pass loosely. B B are the sectional pieces in curved form, and X is the elastic design plate or sheet. (Shown in cross-section.)

The mode of operating my improved graining machine or tool is as follows: By placing the rubber or elastic plate having the design in relief, as set forth, on the convex surface of the curved-shaped pieces of wood B B, the ends of said plate being provided with hooks locked into the clamps D D. The paint to be used is applied by a roller for that purpose, similar to those used in applying ink to types in printing. I take the said machine or tool by the handles E E, and by gently pressing or rocking the machine on the surface to be operated on, the said elastic or rubber plate yielding to the flexible character imparted to it by the said arrangement of said curved-shaped pieces B B, arranged in connection with the screws and springs C C, the said design in relief on said elastic or rubber plate is transferred to the object or work operated on perfectly, whether the surface be level or uneven, the said machine or tool by its arrangement being rendered adjustable to the inequalities of surface to be painted or grained.

Having thus described the construction and operation of my said improved machine or tool, so that one skilled in the art could make and use the same, I do not claim the back part or solid piece of wood in curved form, A, the handles E E, clamps D D, nor the elastic or rubber plate with the design in relief; but

I do claim, broadly, as my invention and desire to secure by Letters Patent—

As an improvement in a graining machine or tool, the curved-shaped pieces of wood B B, or any other available material, divided in sections and attached to the solid piece A, and made with screws and springs adjustable, and made of brass, iron, rubber, or any other proper material, the whole in combination, and for the purpose set forth.

WILLIAM RUSSELL. [L. S.]

Witnesses:

D. W. C. CASTLE,  
CHARLES B. NELSON.