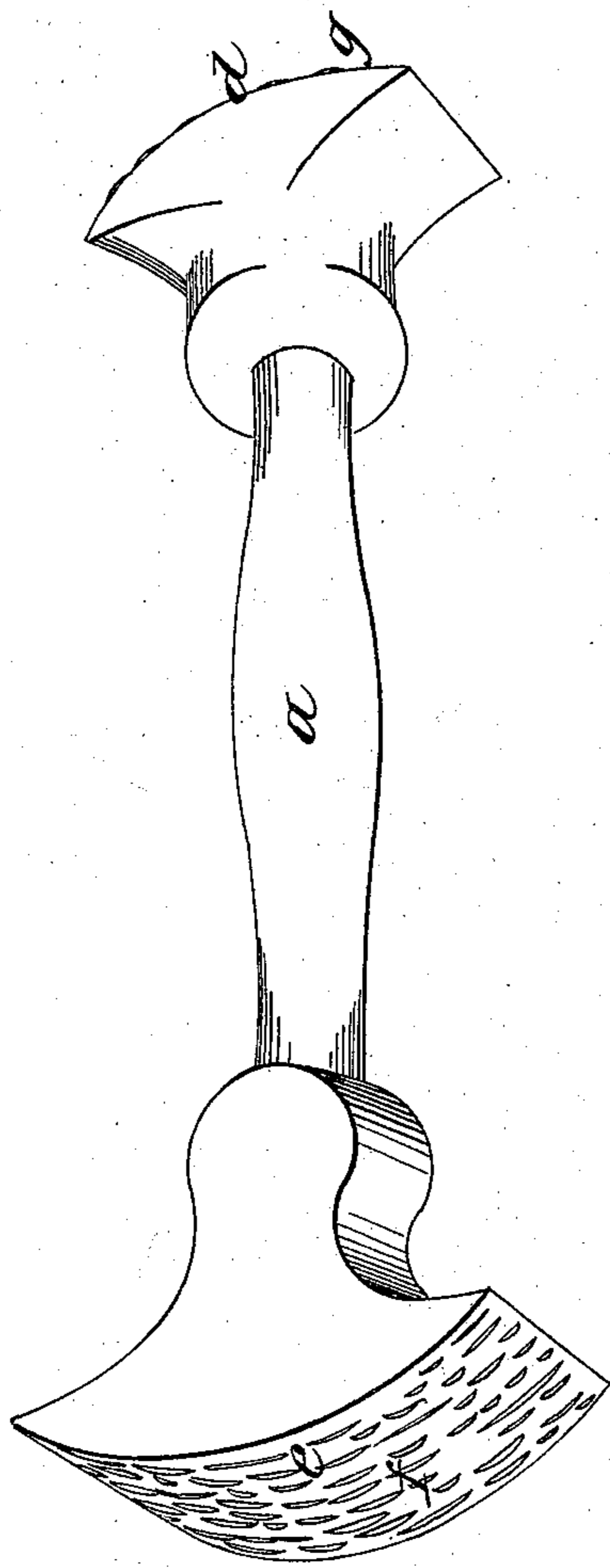


*G. F. Degelow,*

*Graining Instrument.*

*N<sup>o</sup> 36,456.*

*Patented Sept. 16, 1862.*



*Witnesses*

*E. Cohen  
S. Hirsch*

*Inventor*

*G. Frederick Degelow  
per Attorney McBride & Co.*

# UNITED STATES PATENT OFFICE.

G. FREDERICK DEGELOW, OF BETHLEHEM, PENNSYLVANIA.

## PROCESS FOR IMITATING THE GRAIN OF WOOD, &c.

Specification forming part of Letters Patent No. 36,456, dated September 16, 1862.

### *To all whom it may concern:*

Be it known that I, G. FREDERICK DEGELOW, of Bethlehem, Northampton county, State of Pennsylvania, have invented a new and Improved Mode of Imitating the Grain of Various Woods on Paper or other Material; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawing, and to the letters of reference marked thereon.

The nature of my invention consists of imitating the peculiar porous appearance of the grain of various woods on paper, leather, oil-cloth, wood, metal, or other suitable material, by first covering the material with a coat or coats of color, and then (preparatory to the usual process of graining and varnishing) imprinting on the colored surface numerous small indentations, resembling the pores of the wood to be imitated, by means of a suitable instrument provided with a number of sharp points and edges.

On inspecting the smooth surface of any piece of wood it will be noticed that besides the long veins there are a great number of points and small cracks or pores, which constitute what is called the "grain of the wood." The veins, as well as these pores, are of darker color than the rest of the surface. For imitating this peculiarity of the grain of woods—to wit, this porous appearance—I use the following process, which effects the purpose in a very rapid, efficient, and complete manner.

I cover the material on the surface of which the grain of a certain sort of wood shall be imitated with color sufficient to produce the ground tint of the wood to be imitated. After this coat of color has become perfectly dry I impress numerous small indentations on the whole colored surface, deep enough to penetrate the coat of color and enter the surface of the material over which the color was laid on. This may be done by means of an instrument provided with a handle, *a*, and a convex surface or surfaces, *e d*, at one or both ends, respectively, the said surfaces being covered with a number of sharp metallic points and edges, *f g*, which when pressed against the colored surface, as above, will leave indentations on said surface resembling in their configuration the pores of the kind of wood which the said points and edges were suitably constructed to

imitate. From this it will be evident that different instruments with said points and edges differently arranged will have to be used for properly imitating various kinds of woods. An instrument provided with two printing-surfaces, *e d*, as represented by the accompanying drawing, may be used to represent the grains of two different woods. It will also be understood that instruments of a different shape and construction (for instance, a roller with the points and edges arranged around its cylindric surface, said roller to be rolled across the colored surface) might be used for this purpose, and it is therefore not my intention to confine myself to any peculiar construction of the instrument in applying for Letters Patent on my improved mode of imitating grains of wood. When the whole surface has been covered with these indentations, as described, the long veins are traced on the surface in darker color and in the usual manner of what is technically termed "graining." The darker color, as it is put on the surface, fills the indentations, and thus imparts to them the dark appearance of the pores of the wood to be imitated. The work is then finished by putting on the usual coat or coats of varnish.

It will be seen that the size, depth, and consequent darkness of the pores can be regulated by pressing the instrument (above described) more or less hard against the colored surface.

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

The above-described mode of imitating the peculiar porous appearance of the grain of various woods on paper, leather, oil-cloth, wood, metal, or other suitable material, by first covering the material with a coat or coats of color and then (preparatory to the usual process of graining and varnishing) imprinting on the colored surface numerous small indentations, resembling the pores of the wood to be imitated, by means of a suitable instrument provided with a number of sharp points and edges, all as above set forth.

FREDERICK DEGELOW.

Witnesses:

JOSEPH GOTH,  
ADOLPH DEGELOW.