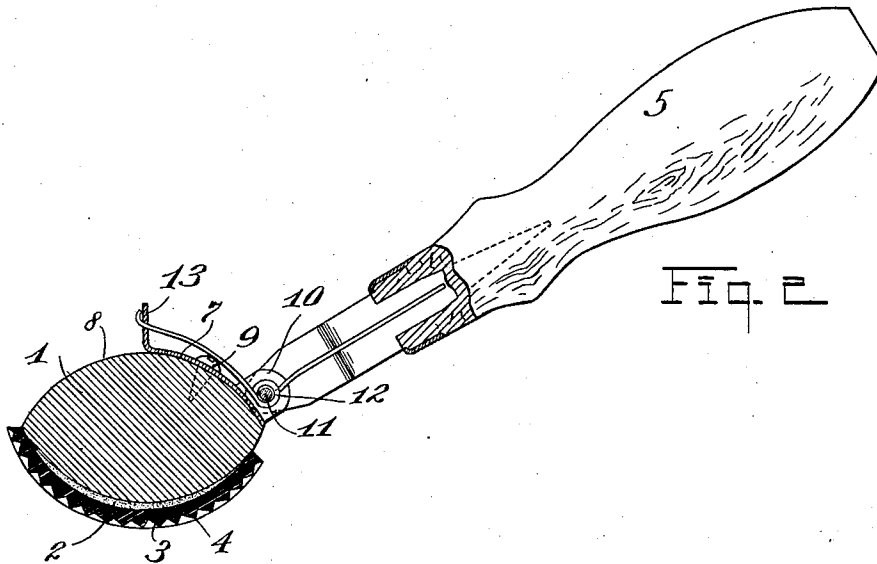
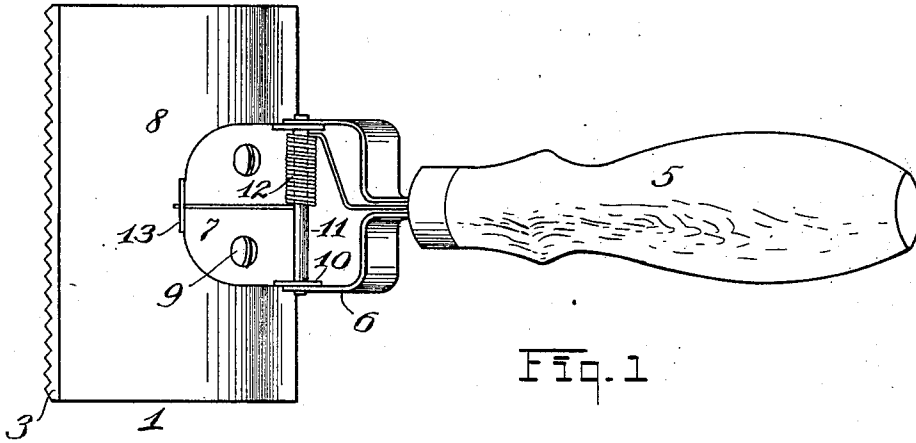


J. D. COUGHLIN.
GRAINING TOOL.
APPLICATION FILED OCT. 15, 1909.

998,958.

Patented July 25, 1911.



Witnesses:

Foreman B. West.
Nathan F. Fetter.

Inventor

Joseph D. Coughlin
By Bates, Foster & Hull.

Attys.

UNITED STATES PATENT OFFICE.

JOSEPH D. COUGHLIN, OF SOUTH BOSTON, MASSACHUSETTS, ASSIGNOR TO THE OHIO VARNISH COMPANY, OF CLEVELAND, OHIO, A CORPORATION OF OHIO.

GRAINING-TOOL.

998,958.

Specification of Letters Patent.

Patented July 25, 1911.

Application filed October 15, 1909. Serial No. 522,743.

To all whom it may concern:

Be it known that I, JOSEPH D. COUGHLIN, a citizen of the United States, residing at South Boston, in the county of Suffolk and State of Massachusetts, have invented a certain new and useful Improvement in Graining-Tools, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings.

10 This invention relates to graining tools and has for its object to produce a tool of this character which, while being cheap in construction, shall be efficient in operation.

15 A still further object of the invention is to enable a tool of this character to be automatically rocked while drawn over a surface, by variations in the pressure applied to the handle.

20 Generally speaking, the invention may be defined as consisting of the combinations of elements embodied in the claims hereto annexed and illustrated in the drawings forming part hereof, wherein—

25 Figure 1 represents a plan view of a tool constructed in accordance with my invention; and Fig. 2, a central transverse sectional view of the tool shown in the preceding figure.

30 Describing the parts of the drawings by reference characters, 1 denotes the head. This head is conveniently made of wood and is preferably elliptical in cross section. Embracing one of the curved surfaces of said head is a sheet 2, preferably of felt, and outside of this sheet there is located a rubber graining pad 3. This pad is provided with ribs 4, providing grooves therebetween. These ribs may be concentric, as shown in the patent to Ford M. Clapp, No. 907,739, issued December 29th, 1908. The purpose of the pad is, by suitably drawing and rocking the head, to produce upon the article with which the tool may be used a surface having a variety of graining effects.

35 5 denotes a handle, the lower end of which is forked, as shown at 6.

40 7 denotes a plate which is secured to the curved surface 8, at one side of the center, as by means of screws 9. This plate is provided with ears 10 forming a support for a rod 11 to which the forks 6 are journaled.

12 denotes a spiral spring which is wound upon the rod 11 and has one end connected to the handle 5 and the other end operatively bearing against the head 1, the latter end of the spring being conveniently retained in place by projecting through an aperture in a lug 13.

By the manner of connecting the handle with the head, the latter is enabled to automatically rock on its point of connection with the handle as varying pressure is applied to the handle while the pad 3 is being drawn over the surface to be treated. This greatly simplifies the acts to be performed by the operator in producing imitation of graining by the pad 3. Furthermore, it avoids the necessity for using a short handle, with corresponding convenience in operation.

70 Having thus described my invention, what I claim is:

1. In a graining tool, the combination of a head having a curved surface, a pad applied to said surface, a plate carried by said head, a handle journaled to said plate, and a spiral spring applied to such journal and having an end engaging the handle and its other end operatively engaging the head.

2. In a graining tool, the combination of a head having a curved under surface provided with a pad, and a handle hinged to the upper surface of the head on an axis parallel with that of the curved under surface, and a spring for holding said handle yieldingly in an intermediate position while allowing it to rock in either direction.

3. In a graining tool, the combination of a head having a curved under surface, a graining pad thereon, a handle hinged to the upper surface of the head and projecting diagonally when the center of the pad is in contact with the work, said handle being adapted to rock with reference to the head in a plane at right angles to such work, and a spring for opposing such rocking.

In testimony whereof, I hereunto affix my signature in the presence of two witnesses.

JOSEPH D. COUGHLIN.

Witnesses:

CHAS. P. MOONEY,
CHRISTIE GILLANDER.