

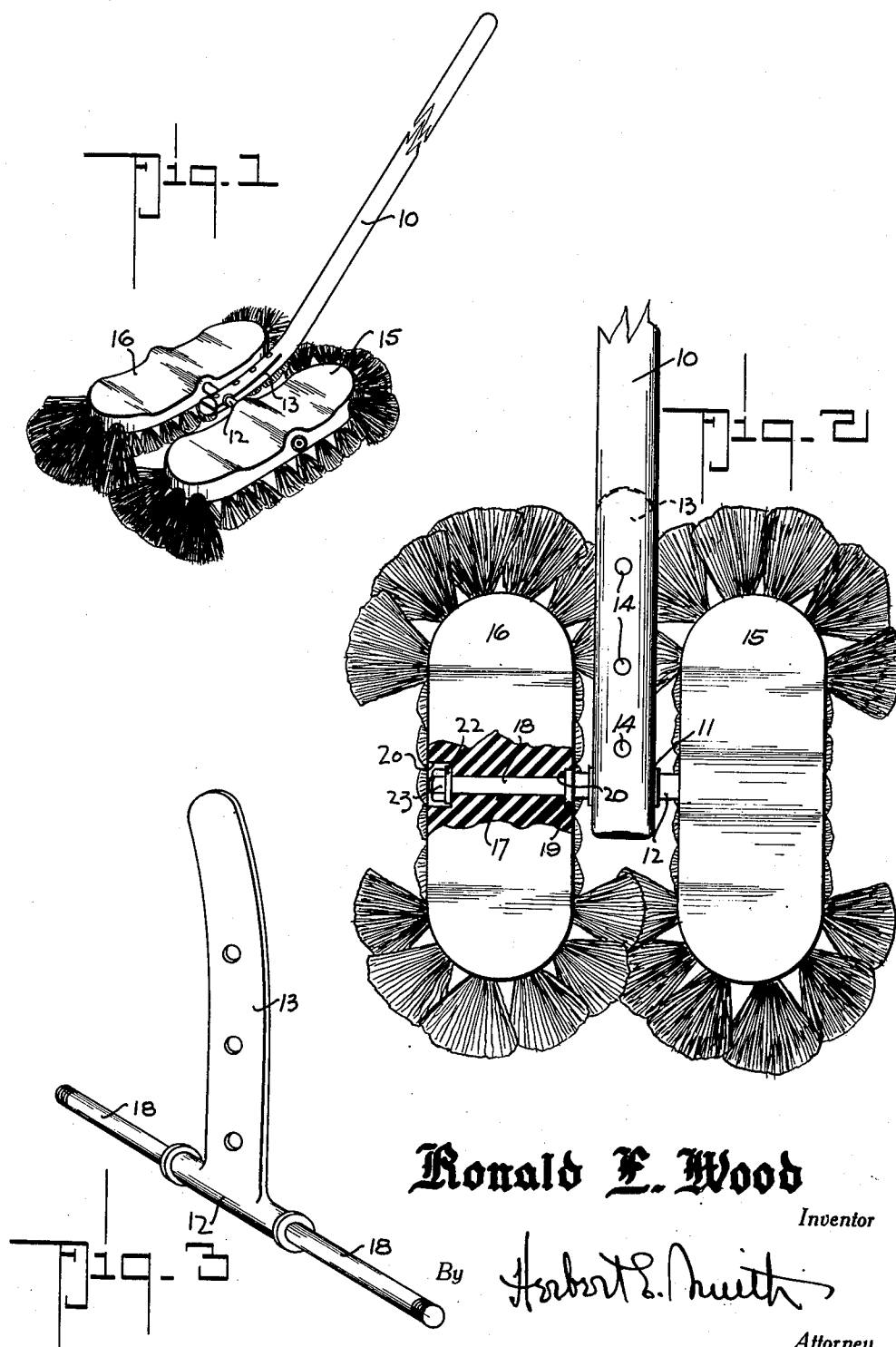
June 8, 1937.

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2,083,134

BRUSH

Filed March 30, 1935



UNITED STATES PATENT OFFICE

2,083,134

BRUSH

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Application March 30, 1935, Serial No. 13,898

3 Claims. (Cl. 15-160)

My present invention relates to brushes and particularly to scrubbing brushes of the type which is used for cleaning vats and, more especially, for cleaning coil pasteurizer vats, although the brush is adaptable for any scrubbing or cleaning purpose, over smooth or uneven surfaces.

An object of the present invention rests in the provision of a pair of flexible brushes independently adjustable to the surface upon which they work and which has a supporting handle between them by means of which the brushes are applied to the surface to be scrubbed.

Another object provides for scrubbing brushes that may be used to insure against scratching or marring of finished surfaces; as often found in vats, especially in the vats utilized in pasteurizing, which may be of glass or any finish where it is important to preserve the surface finish.

In the accompanying drawing, Figure 1 is a perspective view showing my preferred construction; Figure 2 is a plan view, enlarged, and showing a portion of the lower end of the handle only; and Figure 3 is a perspective of the shaft for supporting the brush members and also with an extension tongue therefrom for attachment to a suitable handle.

The general design of my invention consists in the utilization of a handle member 10 approximately five feet in length, curved on its lower end, and of sufficient thickness to insure strength for the purpose in mind. On the lower end of the handle I bore a hole transversely a short distance back from the extreme end, as at 11, to receive a shaft 12. For some distance back of the hole so bored and beginning at the extreme lower end of the handle, I run a saw-cut to receive a tongue member 13 which is welded or otherwise formed on the shaft 12. Rivets 14 insure that the tongue, after insertion, will be rendered in a substantial and fixed manner with the handle permitting the shaft 12 to stand transversely of the longitudinal axis of the handle and supporting a pair of brushes 15 and 16. These brushes are bored through their flexible backs, as at 17, to fit a reduced end 18 of the shaft 12. The brush backs also are countersunk as at 19 and 20. A washer being inserted over the shaft 18 and resting against a shoulder 21 will be received in the countersunk portion 19.

A washer 22 and a nut 23 will be received in the countersunk portion 20 thus providing against any projecting metal part and saving any chance of scratching or marring any surface that the brushes might contact.

The two brushes thus mounted are independent of each other and free to adjust themselves to any uneven surface, or surface different from that being worked upon by the other brush.

Tension may be secured, if necessary, by adjusting the nut 23 and pressure through the handle will insure that the two brushes will adjust themselves to their working surface. The rivets 14 passing through the handle will also pass through the holes 14' in the tongue 13 to insure a rigid connection with the handle 10 and since the tongue 13 is made equal or slightly less in width than the handle, no metal will touch against any object being worked upon.

The individual brushes of my invention are made, preferably, with a flexible back, such as vulcanized rubber, into which the bristles may be set and vulcanized therein to insure longer wear. The back, however, may be formed of a solid piece of rubber, shaped in the manner shown in Figure 1 and having an increased vertical cross sectional area at or near the center of the brush to insure a proper support for maintaining the brush upon its pivotal shaft 18. The ends also are made a bit heavier than the intermediate portions and this insures flexibility on either side of the shaft support so that when the brush is used in a vat having a curved or rounded bottom, or when it is necessary to force the brush into close quarters, a flexing will take place that will insure the bristles of the brush reaching all surfaces effectively. The rubber back will also give on contact with pasteurizing coils or other obstructions, and will not mar or scar the coils, nor mar any other surface of the vat which it contacts.

While it is my intention to provide a scrubbing brush which will easily and quickly clean a coil pasteurizer vat, it may be useful for many other purposes, such as scrubbing floors, woodwork, or any other surface in which a similar operation may be necessary or desirable.

When the brushes become worn or unfit for further use they may be removed by taking off the nut 23 and the washer, and by refitting a new brush to the reduced shaft 18, the brush is renewed for continued use.

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

1. A brush comprising a handle having a cross bore near one end thereof and a slot in said handle and intercepting the cross bore, a transverse shaft having a tongue at right angles thereto, said shaft fitting in said bore and said tongue in said slot, securing means for positively anchoring the

shaft, reduced end portions on said shaft forming shoulders thereon, a washer adjustable thereto, a pair of flexible backed brushes fitting over the end extensions of said shaft and securing
5 means for the brushes whereby they may be under tension and have pivotal movement on said shaft.

2. A brush comprising a handle, a cross shaft near one end of the handle and secured thereto,
10 reduced end extensions on the cross shaft forming a shoulder, a washer against said shoulder and threaded ends for said shaft, a pair of brushes having a transverse bore through the backs of the brushes and approximately centered thereto and
15 corresponding to the end extensions on the shaft and countersunk at each end, said brushes being fitted to said end extensions and retaining means

therefor engaging the threaded ends of the cross shaft.

3. A brush comprising a handle, one end of said handle curved away from the longitudinal axis thereof, a cross-shaft spaced back from the extremity of the curved end and rigidly secured thereto, reduced end extensions upon the cross-shaft, a pair of brushes mounted upon said reduced end extensions, and having a transverse countersunk bore through the central portion of the backs of the brushes for the reception of the reduced end extensions of the cross-shaft, said brushes having enlarged central and end portions and retaining and tensioning means for the brushes engaging the ends of said shaft.
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