

(No Model.)

H. F. MCGILL.
JAPAN BOARD POINT CLEANER.

No. 570,181.

Patented Oct. 27, 1896.

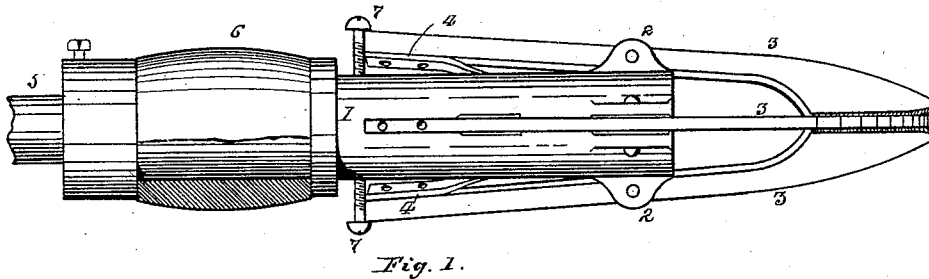


Fig. 1.

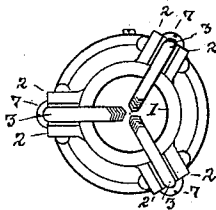


Fig. 2.

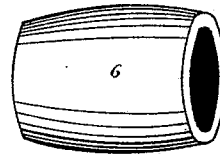


Fig. 3.

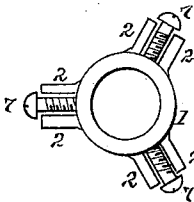
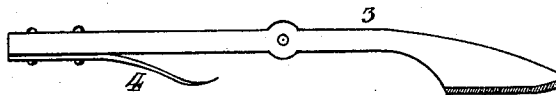


Fig. 4.

Fig. 4.

Fig. 5.



Witnesses:
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UNITED STATES PATENT OFFICE.

HARRY F. MCGILL, OF AKRON, OHIO.

JAPAN-BOARD-POINT CLEANER.

SPECIFICATION forming part of Letters Patent No. 570,181, dated October 27, 1896.

Application filed June 23, 1896. Serial No. 596,599. (No model.)

To all whom it may concern:

Be it known that I, HARRY F. MCGILL, a citizen of the United States, residing at Akron, in the county of Summit and State of Ohio, have invented a certain new and useful Improvement in Japan-Board-Point Cleaners, of which the following is a specification.

My invention has relation to improvements in devices for cleaning the "points" of japan-boards from surplus japanning material that has run down from the articles in the process of baking the japan.

In japanning small articles of wood or other material, as pipe-stems, pipe-bowls, pail-handles, knobs, and kindred articles, it is customary to employ as a support a small board or analogous flat surface from which project pins, ordinarily called "points," on which the articles to be japanned are stuck or impaled. In the "cooking" process in ovens for hardening the solution the surplus of the japanning material, being softened by the heat, runs down upon and about the points, and, remaining there after the japanned articles are removed, necessitates considerable force for its removal.

The object of my invention is to provide a simple and effective device by which this surplus material may be removed from the enameling-points and the board about their bases.

To the aforesaid object my invention consists in the peculiar and novel arrangement, construction, and combination of parts hereinafter described, and then specifically pointed out in the claims, reference being had to the accompanying drawings, forming a part of this specification.

In the accompanying drawings, in which similar reference-numerals indicate like parts in the different figures, Figure 1 is a side elevation of the complete tool; Fig. 2, an end elevation looking from the right of Fig. 1; Fig. 3, the handpiece for manipulating the device, detached; Fig. 4, an end view of the central tube with cleansing-jaws removed; and Fig. 5, a side elevation of one of the cleansing-jaws, detached.

Referring to the drawings, 1 is a metallic tube about one end of which are pairs of lugs 2, having pivot-holes, and between each pair of lugs is pivotally mounted one of the jaws 3.

The front end of each jaw 3 is bent inward and has an inner straight edge, the degree of this deviation being such that the straight edges of the three jaws will meet in the axial line of the tube 1, and these edges are notched or serrated to render them rough. On the opposite end of each jaw is a spring 4, that presses against the tube 1 and constantly forces such end outward, and this may, if desired, be a coiled spring, but the leaf-spring is preferred. The central tube is connected with a flexible shaft 5, by which power may be conveyed to it, and on the tube 1 is a loose sleeve 6, that serves as a handpiece by which the apparatus is manipulated.

In operation the tube is rapidly revolved by the shaft 5, and the apparatus, taken in the hand, is directed successively on the japanned points and pressed down until it meets the board from which they project, thus rapidly removing the adhering japanning material.

The central support of the apparatus is a tube to permit unusually long points to enter.

Contiguous to the end of each jaw 3 is a screw 7, the head of which extends over the back end of the jaw, screwed into a hole in the tube 1, and these screws serve as stops to arrest the outward movement of such end and consequent inward motion of the opposite ends.

I claim as my invention—

1. In a japan-board-point cleaner, the combination with a tubular body having lugs, of jaws medially pivotally mounted between said lugs, springs to force outward the inner ends of said jaws, a free sleeve on said body, and means for rotating said body, substantially as shown and described.

2. In a japan-board-point cleaner, the combination with a flexible shaft, of a tubular body adapted to be revolved by said shaft, said body having jaws pivotally mounted between lugs thereon, said jaws being each provided with springs to press against said body and force their inner ends outward: stop-screws to limit the outward motion of said ends: said jaws extending beyond the end of said body substantially as shown and described.

3. In a japan-board-point cleaner, a number of parallel jaws having serrated faces adapted

to meet in a common line, pivotally mounted
on a central tubular body, and adapted to
approach and recede from each other in dif-
ferent planes: springs to severally cause said
5 jaws to approach said common line, and means
for rotating said central body, substantially
as shown and described.

In testimony that I claim the above I here-
unto set my hand.

HARRY F. MCGILL.

In presence of—

C. E. HUMPHREY,
C. P. HUMPHREY.