No. 796,841. PATENTED AUG. 8, 1905.

J. H. GRAY.

DEVICE FOR FEEDING CLEANING OR POLISHING MATERIAL TO BUFFING WHEELS.

APPLICATION FILED SEPT. 26, 1903.

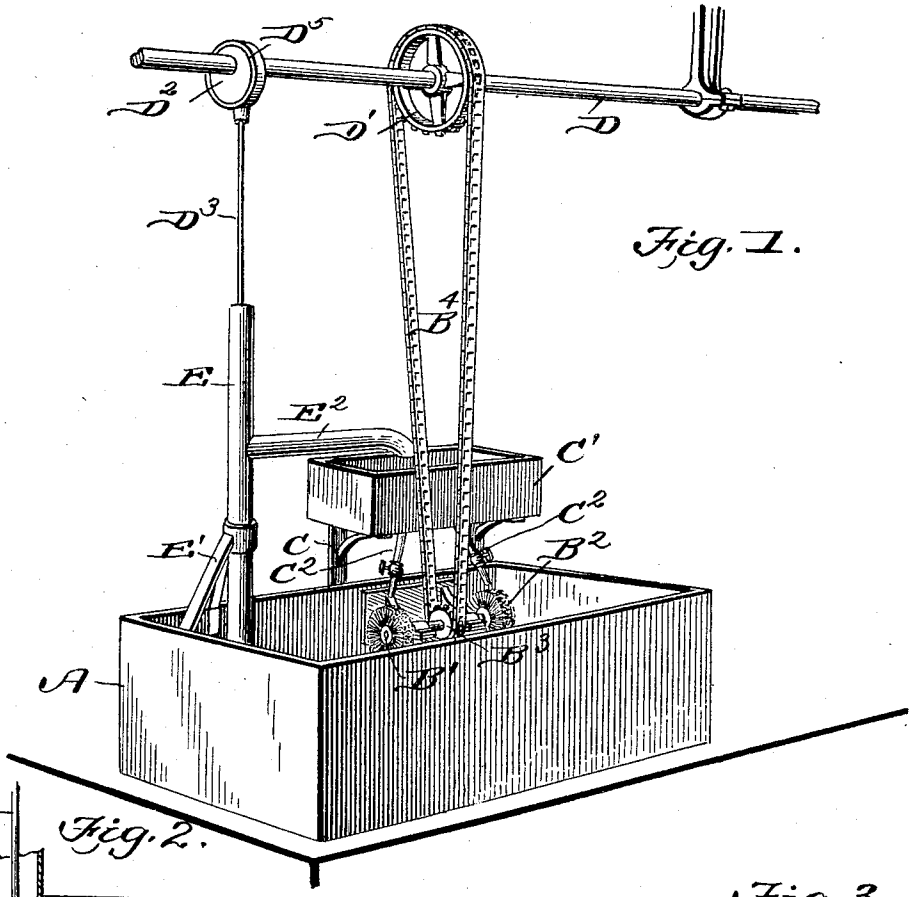


Fig. 1.

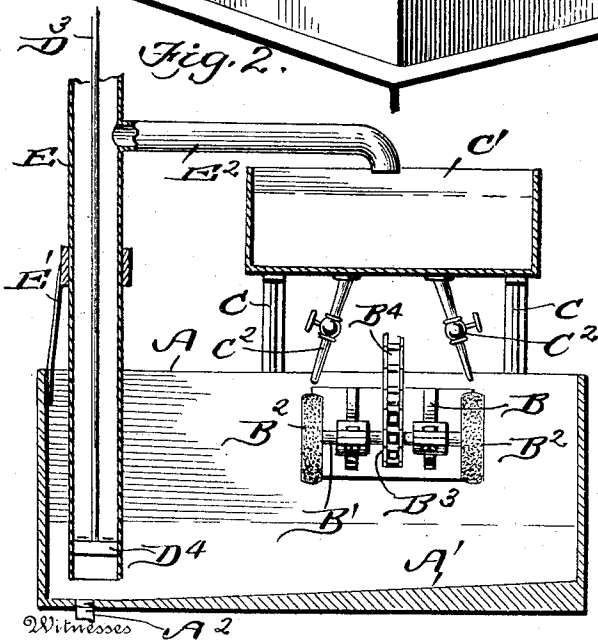
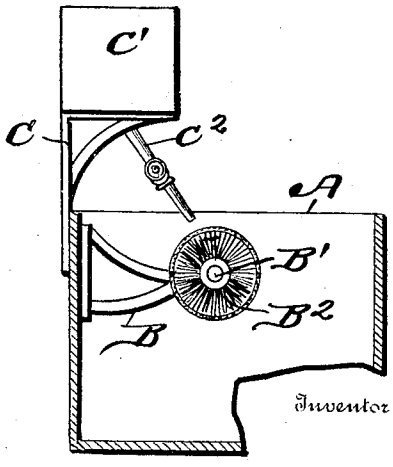


Fig. 2.

Fig. 3.



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DEVICE FOR FEEDING CLEANING OR POLISHING MATERIAL TO BUFFING-WHEELS.

No. 796,841. Specification of Letters Patent. Patented Aug. 8, 1905.

Application filed September 26, 1903. Serial No. 174,776.

To all whom it may concern:

Be it known that I, JAMES H. GRAY, a citizen of the United States, residing at New Philadelphia, in the county of Tuscarawas and State of Ohio, have invented a new and useful Device for Feeding Cleaning or Polishing Material to Buffing-Wheels, of which the following is a specification.

My invention relates especially to a device for scrubbing articles to be plated or polished, and is a step in the preparation of the article for such plating or polishing process.

The object of my invention is to save labor by accomplishing by machinery what has heretofore been done by hand; and a further object is to devise such a machine that the pumice-stone or other cleaning material will be used over many times, thereby saving waste of said material.

My invention consists in the novel features of construction hereinafter described, particularly pointed out in the claims, and shown in the accompanying drawings, in which—

Figure 1 is a perspective view of my device. Fig. 2 is a longitudinal section, parts being in elevation; and Fig. 3 is a transverse section, parts being shown in elevation.

In the drawings, A represents a watertight box or compartment resting on any suitable support, as a table or bench. The box is formed with an inclined bottom sloping toward one end of the box, and at this lower end is a discharge-pipe A^2. The rear wall of the box A carries on its inner face adjacent its upper edge inwardly-projecting brackets B, and journaled in these brackets is a shaft B′, extending parallel to the side walls of the box. Brushes B^2, of any suitable construction, are rigidly fixed on the ends of this shaft, and intermediate the brushes is fixed a sprocket-wheel B^3. A sprocket-chain B^4 runs over this wheel and drives the shaft and brushes.

Vertical brackets C are carried by the rear wall of the box adjacent the brackets B, and supported by these vertical brackets is a trough C′. Valve-controlled discharge-pipes C^2 lead from the bottom of this trough and discharge over the brushes.

A hanger-shaft D extends above and over the box and has on it a fixed sprocket-wheel D′, over which the sprocket-chain B^4 runs, and has also fixed on it an eccentric D^2. A vertical piston-rod D^3 has at its lower end a piston D^4 and at its upper end an eccentric-strap D^5, which strap encircles the eccentric D^2. The piston D^4 works in a pump-cylinder E, which is arranged vertically over the lower end of the box, being held in place and supported above the bottom of the box by means of the braces E′.

The operation of my device is as follows: The shaft D is driven in any desired manner from any suitable source of power, and through the medium of the sprocket-wheel and chain rotation is imparted to the shaft B′ and the brushes B^2. During the operation of the device the pipe A^2 is closed in any suitable manner and the box A partly filled with water and pumice-stone or some equivalent of the stone. The rotation of the eccentric D^2 with the shaft D will actuate the plunger or piston D^4, and the water and pumice-stone will be pumped up the cylinder or barrel E and discharged through the spout E^2 into the trough C′, from which it will be fed to the brushes through the pipes C^2, and from the brushes it will fall again into the box A and be again raised by the pump to the trough C′, so that the same supply of stone can be used over and over. The box A can be cleaned by drawing off the water and stone, together with the refuse scrubbed from the articles to be treated, by means of the drain-pipe A^2.

It will be noted that this device not only saves the pumice-stone, but is also adapted for use where the supply of water is limited, as running water is not required.

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

1. A device of the kind described comprising a box having an inclined bottom, a rotatable shaft journaled within the box, brushes fixed on said shaft, a sprocket-wheel on said shaft, a rotatable shaft arranged above the box, a sprocket-wheel fixed on said shaft, a sprocket-chain running over sprocket-wheels mentioned, a trough arranged above the brushes, valve-controlled pipes leading from the trough and adapted to discharge on the brushes, and means operated from the second-mentioned shaft for pumping the liquid discharged from the trough back to the trough.

2. A device of the kind described, comprising a box having a bottom inclined toward one end, a rotatable shaft arranged longitudinally above the bottom of the box, brushes carried by said shaft, a trough arranged

above said brushes, pipes leading from the trough and adapted to discharge upon the brushes, an upper, rotatable shaft journaled above the box, means for connecting the two shafts, a pump-cylinder arranged in the box above the lowest portion of the inclined bottom, a plunger therein, a plunger-rod having an eccentric-strap at its upper end, an eccentric fixed on the upper shaft and working in said strap, and a discharge-spout leading from the pump-cylinder to the trough.

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