ROTARY BURNISHING MACHINE FOR FORMED METAL ARTICLES

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1 Claim. (Cl. 51—17)

This invention relates to the burnishing of metal articles, and particularly to means for accomplishing this in a rapidly operating machine in such a manner as to impart to the burnished surfaces a free and desired finish. The invention is characterized by a novel and improved machine for burnishing formed metal articles.

The machine is essentially a cylindrical container with a shaft extending vertically through the center of the container. The shaft is provided with means for rotating the container at a selected speed and for moving the container along a horizontal axis. The container is open at the upper end and is closed at the lower end.

The container is provided with a sleeve fitted over the shaft and extending beyond the container. The sleeve is provided with means for rotating the sleeve about the shaft. The sleeve is also provided with means for moving the sleeve along a horizontal axis.

The machine is further provided with a means for submerging the articles to be burnished in a liquid abrasive material contained in the container. The articles are introduced into the container and are then burnished by rotating the container and the sleeve, and moving the container along the horizontal axis.

The machine is further provided with means for providing a smooth and uniform finish to the burnished surfaces. This is accomplished by rotating the container at a selected speed and moving the container along the horizontal axis at a selected rate.

The machine is further provided with means for controlling the burnishing process to provide a desired finish to the burnished surfaces. This is accomplished by controlling the speed and direction of rotation of the container and the sleeve, and the rate of movement of the container along the horizontal axis.

The machine is further provided with means for providing a desired finish to the burnished surfaces by controlling the pressure and flow of the liquid abrasive material contained in the container. This is accomplished by controlling the pressure and flow of the liquid abrasive material contained in the container.

The machine is further provided with means for providing a desired finish to the burnished surfaces by controlling the temperature of the liquid abrasive material contained in the container. This is accomplished by controlling the temperature of the liquid abrasive material contained in the container.

The machine is further provided with means for providing a desired finish to the burnished surfaces by controlling the concentration of the abrasive material contained in the container. This is accomplished by controlling the concentration of the abrasive material contained in the container.

The machine is further provided with means for providing a desired finish to the burnished surfaces by controlling the viscosity of the liquid abrasive material contained in the container. This is accomplished by controlling the viscosity of the liquid abrasive material contained in the container.

The machine is further provided with means for providing a desired finish to the burnished surfaces by controlling the amount of abrasive material contained in the container. This is accomplished by controlling the amount of abrasive material contained in the container.
in said liquid and in rubbing engagement with said projections when the sleeve is lowered to position the arms within the container and the shaft is rotated, said arms and articles carried thereby being shiftable on the shaft to a position above the container to facilitate removal and replacement of the articles.

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