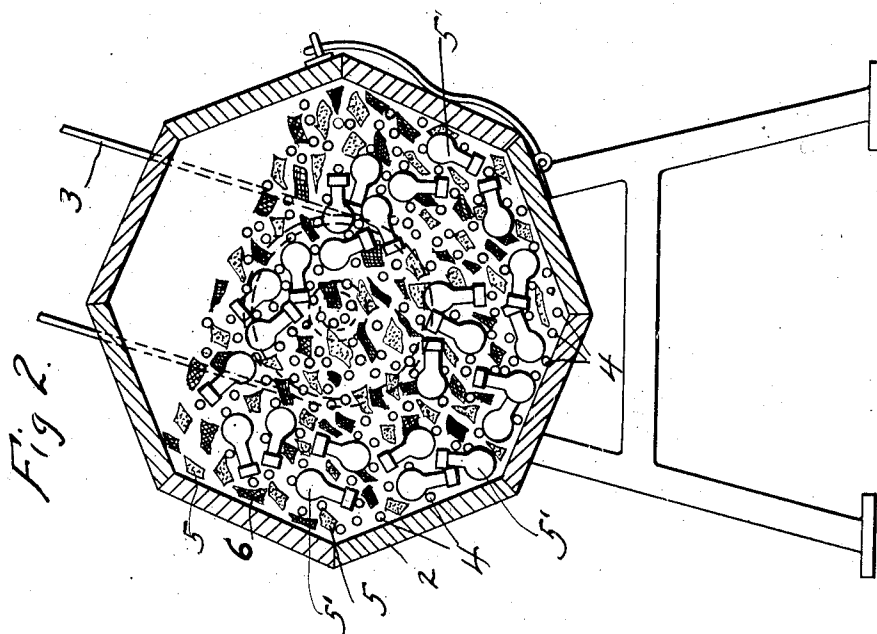
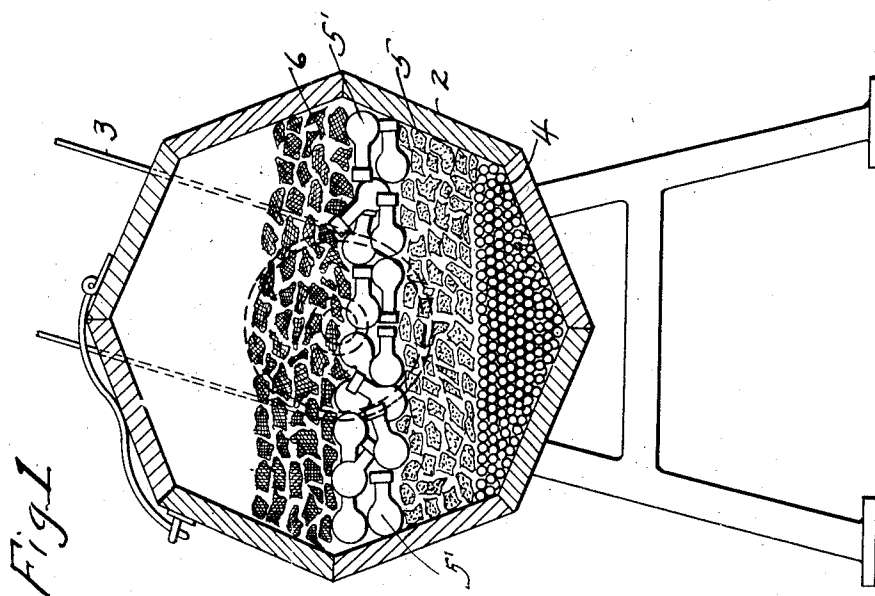


H. C. HART.
METHOD OF POLISHING AND BUFFING METAL ARTICLES.
APPLICATION FILED AUG. 5, 1919.

1,352,598.

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Inventor

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METHOD OF POLISHING AND BUFFING METAL ARTICLES.

1,352,598.

Specification of Letters Patent. Patented Sept. 14, 1920.

Application filed August 5, 1919. Serial No. 315,419.

To all whom it may concern:

Be it known that I, HUBERT C. HART, a citizen of the United States, residing at Unionville, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Methods of Polishing and Buffing Metal Articles, of which the following is a specification.

This invention relates to a method of polishing and buffing. A method involving the invention can be employed with advantage in connection with many different kinds of articles. The present procedure involved in buffing and polishing an article is more or less laborious and time-requiring. I have evolved a method by which I can concurrently polish and buff a large number of articles, and as I have determined, can do so in a more thorough and effective manner than is possible by hand. While as I intimate the method is capable of general application, I have nevertheless found it particularly well adapted to the polishing and buffing of parts such as are found on typewriting, adding and like machines. In the following description I will disclose one way of several involving my invention, of carrying the method of said invention into effect. Of course I am not restricted to this disclosure. I may depart therefrom in several particulars within the scope of the invention expressed by the claim following said description.

In the accompanying drawings I have shown this particular way of carrying said method into effect. In these drawings Figures 1 and 2 show a tumbling barrel in cross section and assumed to be respectively at rest and in motion.

Ordinarily I use in the method a receptacle or container which is given a movement to obtain the requisite agitation. I have found that what is known as a "tumbling barrel" 2 answers my requirements in this particular, this article being in fact in ordinary every day use in foundries and factories of various kinds.

The articles to be polished and buffed are placed in mass or in the aggregate in such a receiver or container and are subjected to agitation while therein. This agitation may be of course accomplished by hand but as a matter of facility it is desirably brought about mechanically as by the agency of a

suitable motor acting through belt gearing denoted in a general way by 3.

I place in the barrel with the articles, steel balls, chamois-skin scraps and powdered rags or their equivalents. These powdered rags are desirably ground or are in small pieces or particles and their action on the articles being tumbled is to take the dirt off the same; in other words the ground rags clean the articles while the chamois polishes and buffs them. In addition to the chamois, balls, and powdered rags, I utilize suitable polishing materials such as rouge and whiting. The chamois as will be clear polishes and buffs the articles after they have been effectually cleaned by the powdered rags, the polishing materials aiding in the action. I subject the barrel and its contents to a moving or vibrating action of practically five hours. I find that I can accomplish about twenty times the output through the method that is possible by hand operation. Not only this but the articles are more thoroughly polished and buffed than is possible by hand.

In carrying the method into effect, I first put practically fifty pounds of steel balls into the barrel and then a layer of chamois-skin scraps or its equivalent and then a layer of different kinds of metal or other material which is to be polished and buffed, and then I put in a layer of powdered rags or something analogous and continue to make these layers until the barrel is full. Then I sprinkle in among the different articles two or three different kinds of polishing materials such as I have mentioned and which are used to facilitate the polishing and brightening of the metal. The continuous rolling of the barrel when the lid thereof is closed, accomplishes the result which I wish.

I have subjected the method to rigorous practice and find thereby that I can actually accomplish almost thirty times as much by my method as is possible by the present hand proceedings. I might also add that the method has received especial favor in the field of typewriter manufacturing where I can accomplish in five hours an unusually larger amount of work than can be obtained through the efforts of five men, in one half the time. The tumbling barrel of whatever form it may be is desirably lined with wood

or something of a similar soft nature by which the metal articles therein will not be injured when subjected to agitation or motion. Desirably the mass is put into the
5 tumbling barrel while in a dry condition.

What I claim is:

A method of polishing and buffing articles, which comprises placing the articles in a mass of metal balls, together with chamois
10 skin scraps and a polishing powder all in a

dry condition and subjecting the mixture to movement against a surface which is softer than that of the balls.

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

HUBERT C. HART.

Witnesses:

ELSIE M. RABENSTEIN,
HEATH SUTHERLAND.