C. S. STACEY.

HOLDING FORMS FOR BUFFING ARTICLES.

APPLICATION FILED SEPT. 13, 1916.

1,215,735.

Patented Feb. 13, 1917.

2 SHEETS—SHEET 1.

FIG. 1.

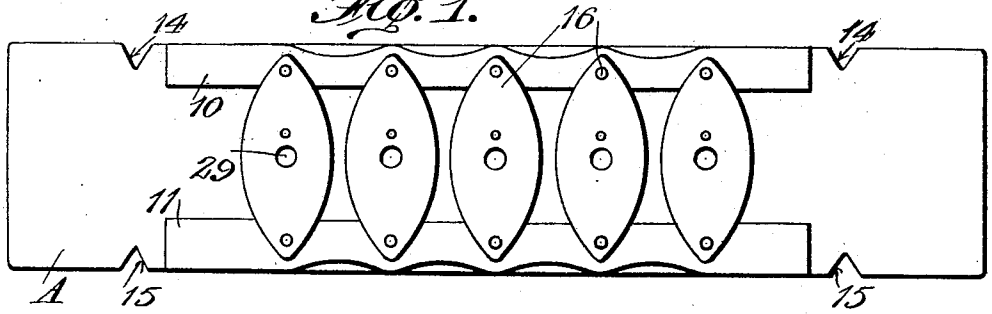


FIG. 2.

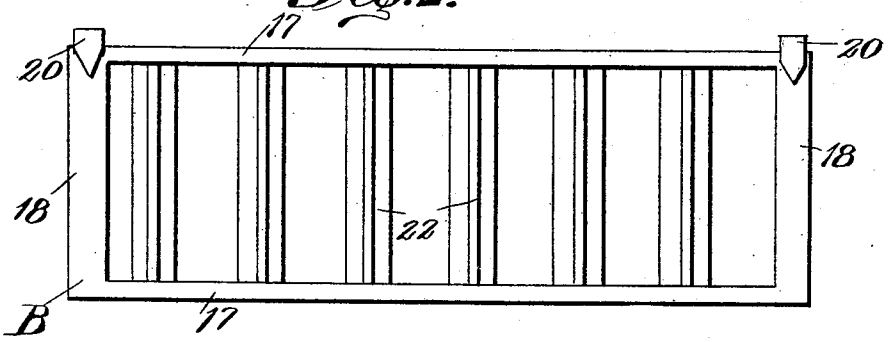
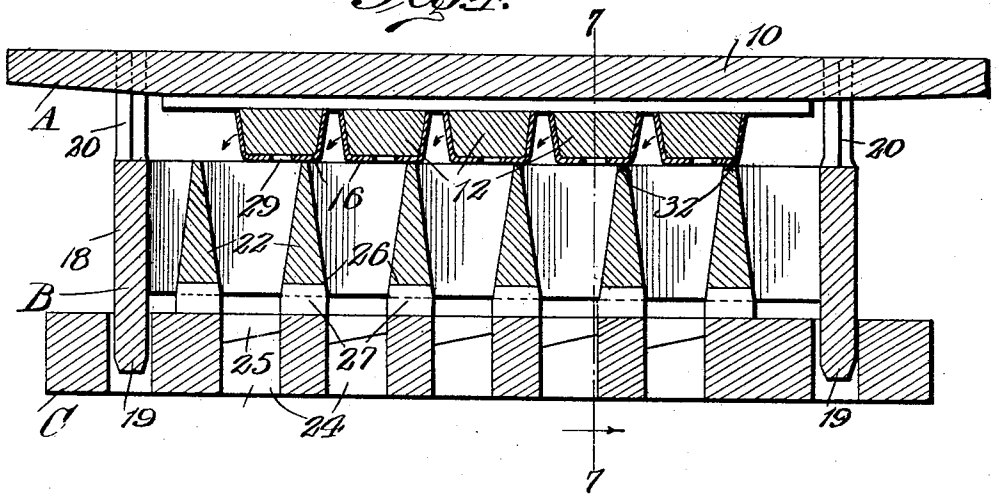


FIG. 4.



Charles S. Stacey.
Inventor

By Geo. P. Zimmel
Attorney

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

C. S. STACEY.

HOLDING FORMS FOR BUFFING ARTICLES.

APPLICATION FILED SEPT. 13, 1916.

1,215,735. Patented Feb. 13, 1917.

2 SHEETS—SHEET 2.

Fig. 5.

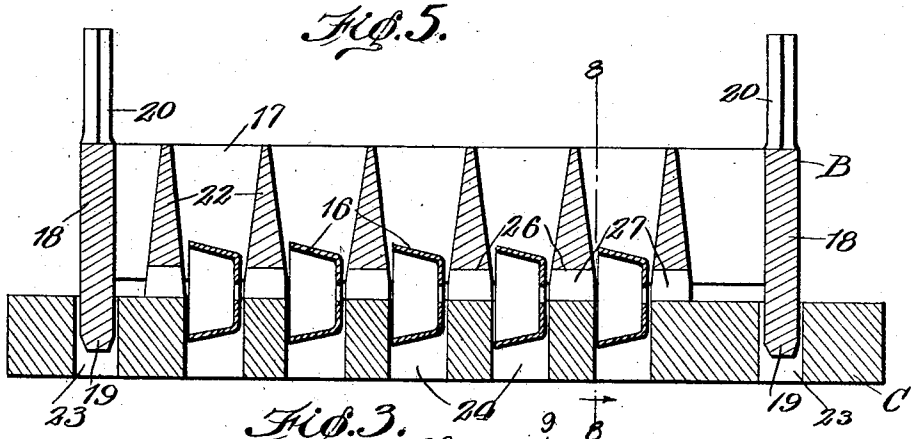


Fig. 3.

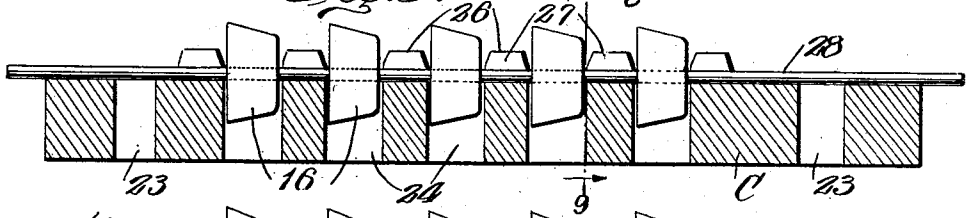


Fig. 6.

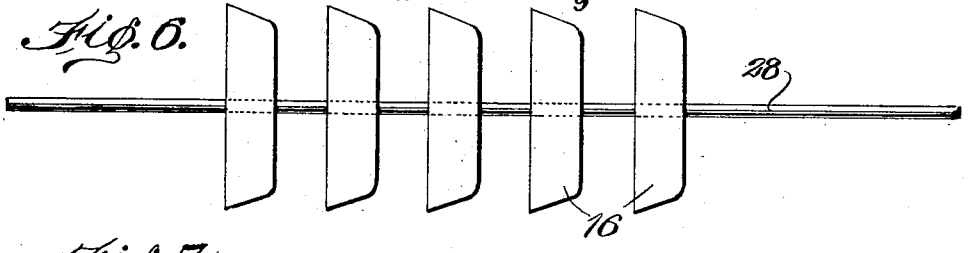


Fig. 7.

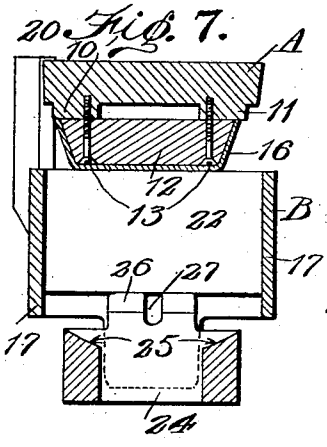


Fig. 8.

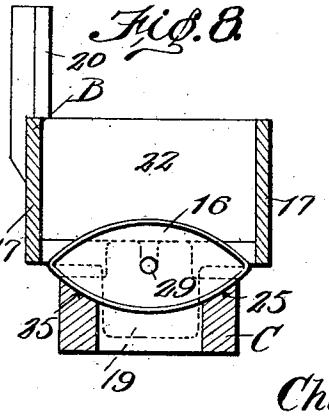
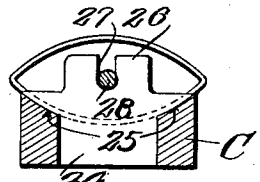


Fig. 9.



Charles S. Stacey
Inventor

By Geo. P. Kimmel
Attorney

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

CHARLES S. STACEY, OF DOVER, OHIO.

HOLDING-FORMS FOR BUFFING ARTICLES.

1,215,735. Specification of Letters Patent. Patented Feb. 13, 1917.

Application filed September 13, 1916. Serial No. 119,882.

To all whom it may concern:

Be it known that I, CHARLES S. STACEY, a citizen of the United States, and resident of Dover, in the county of Tuscarawas and State of Ohio, have invented certain new and useful Improvements in Holding-Forms for Buffing Articles, of which the following is a specification.

The present invention relates to the class of grinding and polishing and it has particular reference to new and useful improvements in devices for holding, and turning articles to be polished, during the polishing process, whereby to obviate the necessity of touching the articles with the hands.

My invention has for its primary object the provision of a pair of holding devices for carrying articles to be buffed or polished, a member also being provided for transferring the articles from one holder to the other to obviate the contact of the hands with the articles.

Another object of my invention is to provide a device of the character described which is simple in construction, cheap to manufacture, light and durable and effective in use.

Other objects and advantages to be derived from my improved article holder for buffing will appear from the following detailed description and the claims, taken with an inspection of the accompanying drawings, in which—

Figure 1 is a plan view of the top article holding frame a plurality of the articles being shown;

Fig. 2 is a top plan view of the article transferring device;

Fig. 3 is a longitudinal sectional view of the bottom article holding form, some of the articles being shown;

Fig. 4 is a similar view of the top holding form, transferrer and bottom holding form assembled;

Fig. 5 is a similar view showing the top holding form removed and the articles transferred;

Fig. 6 is an elevational view of the article carrying rod, a plurality of the articles being shown mounted thereon;

Fig. 7 is a vertical sectional view taken on the line 7—7 of Fig. 4;

Fig. 8 is a similar view taken on the line 8—8 of Fig. 5; and

Fig. 9 is a similar view taken on the line 9—9 of Fig. 3 all looking in the direction of the arrow.

Referring more particularly to the drawings, wherein similar characters of reference designate like and corresponding parts throughout the various views A, B and C designate, in their entireties, the top article holding form, transferrer, and bottom holding form.

Referring specifically to the top holding form, I provide a body having a pair of longitudinally extending strips 10 and 11 on one side thereof adjacent the marginal edge, said strips serving to support a plurality of forms 12, screws 13 serving to mount said forms on said strip. Two pairs of notches 14 and 15 are provided in the longitudinal marginal edges of the body A adjacent the free end of the strip portions. The strip portions may be formed integrally with the body or may be formed as separate portions.

A plurality of articles designated 16 are provided, said articles being substantially elliptical in shape and receivable upon the forms 12. Of course, it is to be understood that I do not limit myself to the use of the device in connection with the particular articles shown, since the same might readily be adapted to hold various articles.

The transferring device designated B in its entirety is substantially rectangular in shape, the same having side walls 17 and end walls 18. A pair of lugs 19 extend from the end walls 18 for a purpose which will hereinafter appear. A pair of arms 20 extend from the opposite side of the end walls adjacent the corners thereof, said arms 20 being adapted for registration with the recesses 14 or 15 in the body A. A plurality of partitions 22 are arranged transversely

of the transferrer B for a purpose which will hereinafter appear. The partitions referred to terminate short of one marginal edge of the side walls 17 for a purpose which will hereinafter appear.

The case holding frame designated C includes a body formed with a pair of openings 23 to receive the lugs 19 of the transferrer B. The body C is also provided with a plurality of pockets 24 to accommodate the articles 16, said articles being arranged on their sides as best shown in Figs. 3 and 5. The top portions of the pockets are inclined as at 25 to accommodate the curved portions of the articles 16 as best shown in Figs. 7 and 9. A plurality of upstanding lugs 26 are provided on the upper surface of the body C between the pockets 24, said lugs being formed with recesses 27 to accommodate a retaining rod 28, said rod passing through openings 29 in the articles 16.

In use the articles 16 are first placed upon the forms 12 carried by the body A. The articles as now supported are presented to the buffing wheel of an ordinary buffing machine to have outer plain surfaces thereof highly polished. When this has been done the body A is placed in a horizontal position the articles remaining thereon. The transferrer C is placed upon the body A, the arms 20 engaging in one of the pairs of recesses 14 or 15 as the case may be. This engagement brings the smaller ends of the partitions 22 into engagement with the articles at the points 32, said engagement being off center as best shown in Fig. 4. The transferrer and the top form are now inverted and placed upon the bottom form C as best shown in Fig. 4, it being apparent from the inspection of Fig. 4 that the partition 22 alines with the lugs 26 formed on said bottom form. The top form is now removed and the articles released therefrom, the latter dropping edgewise between the partition into the pockets 24 formed in said bottom form C, resting as best shown in Fig. 5. The transferrer is now removed and the rod 28 inserted through the openings 29 in said articles as best shown in Figs. 3 and 9. As now supported the articles are again presented to the buffing wheel, having their side portions polished. When buffing the sides of the articles the rod is grasped at both ends by the operator together with the form C, this serving to firmly maintain the articles within the pockets 24. To polish the opposite side of the articles the rod is merely removed together with the articles and the same reversed. Thus it will be seen that after placing these articles on the top frame the same are not touched by the operator's hands during the buffing process. The articles may be readily removed from the rod after buffing and placed in suitable containers (not shown). Of course, I do not limit myself to the number of pockets shown or the exact shape of the same, since these pockets might be readily altered to suit various sizes and shapes of articles to be polished. When my improved article holder is employed in connection with buffing articles I am enabled to both increase the efficiency of this department of a factory or the like and to produce a cleaner article. Of course, it is preferable that the articles snugly engage the forms 12 in order that they will not become accidentally disengaged therefrom. The article holding devices and the transferrer are to be made of metal to withstand the slight wear which might be made thereon by the buffing wheel.

From the above description taken in connection with the accompanying drawing, it is thought that a clear and comprehensive understanding of the construction, operation and advantages of my invention may be had, and while I have shown and described the device as embodying a specific structure, I desire that it be understood that such changes may be made in said structure as do not depart from the spirit and scope of the invention as claimed.

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

1. In a device as specified, the combination of a base holding frame provided with a plurality of pockets, the top holding frame having a plurality of forms thereon to receive articles, and a transferrer having a plurality of partitions to remove and guide the articles from the top frame to the bottom frame and change the angular disposition of said articles.

2. A device as specified, including the combination of a base holding frame provided with a plurality of pockets, a top holding frame having a plurality of forms thereon to receive articles, a transferrer for the articles having a plurality of partitions to engage the articles on the top frame and deflect and guide the same into the pockets of the base frame.

3. In an article holder, the combination of a top frame having a plurality of forms thereon, to receive articles, a base frame having a plurality of pockets to receive articles, a plurality of lugs formed on the base frame between the pockets, a transferrer for the articles having a plurality of partitions to aline the said lugs, said partitions serving to guide the articles from one frame to the other, said lugs being formed with recesses, and a rod to extend through said recesses and through the articles to retain the same in position on said base frame.

4. In an article holder, the combination of a top frame having a plurality of forms

thereon to receive articles, a base frame having a plurality of pockets to receive articles, a plurality of lugs carried on the base frame between the pockets, a transferrer having a plurality of partitions, means on the transferrer to aline the partitions with the lugs on the base frame and to dispose the free edges of said partitions in offset engagement with the articles to be transferred to deflect and guide the latter into said pockets.

5. In an article holding device, the combination of a base holding frame, a top holding frame, and a transferrer for changing the articles from the first to the second said frame and altering the positions of the articles to exhibit portions other than those first exhibited.

In testimony whereof, I affix my signature hereto.

CHARLES S. STACEY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."