

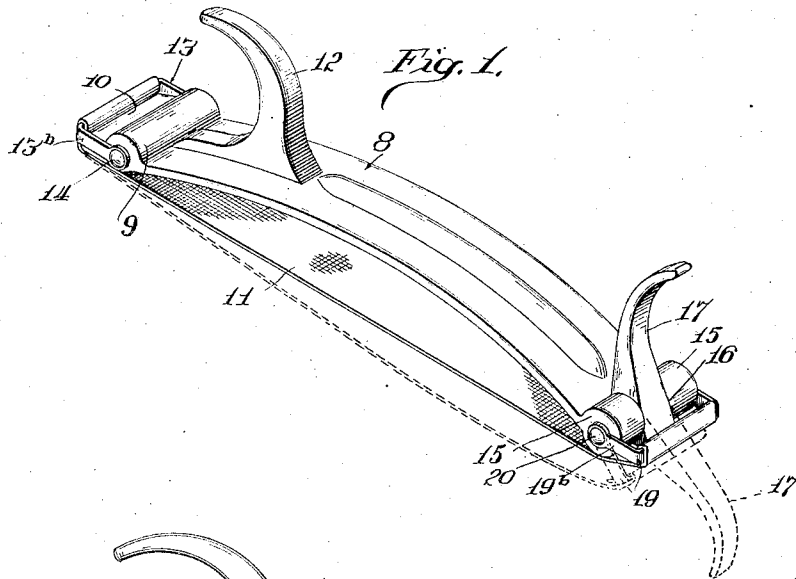
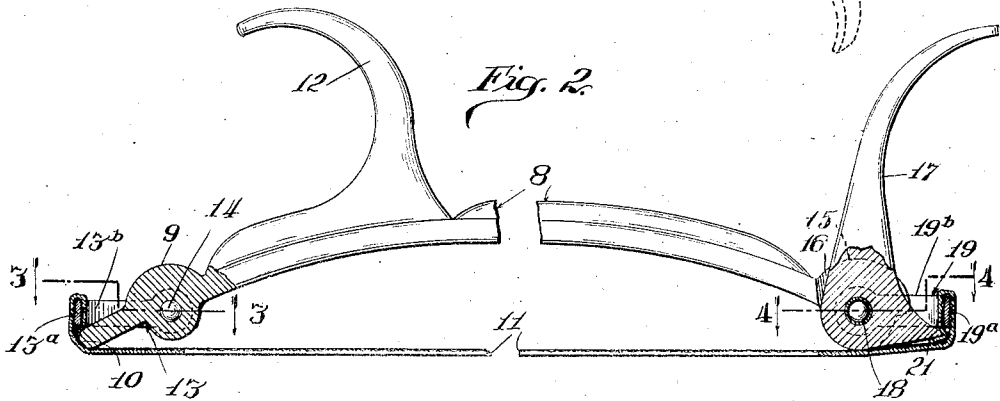
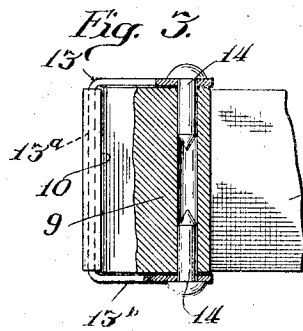
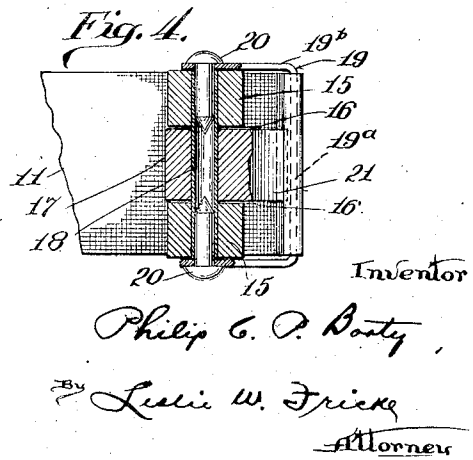
Jan. 25, 1927.

P. C. P. BOOTY

1,615,436

POLISHING IMPLEMENT

Filed Dec. 20, 1923



Inventor

Philip C. P. Booty,

By Leslie W. Frick,

Attorney

## UNITED STATES PATENT OFFICE.

PHILIP C. P. BOOTY, OF CHICAGO, ILLINOIS, ASSIGNOR, BY MESNE ASSIGNMENTS, TO  
LESLIE W. FRICKE, OF OAK PARK, ILLINOIS.

## POLISHING IMPLEMENT.

Application filed December 20, 1923. Serial No. 681,736.

My invention relates to a polishing implement of the type described and claimed in my co-pending application Serial No. 576,485 filed July 21, 1922.

5 The primary object of my present invention is to provide an implement having all the advantages noted in my aforesaid application and with the parts of the holder so constructed and arranged that they may be  
10 inexpensively manufactured from any suitable and desired material, for example, metal, celluloid and the like, easily and quickly assembled, and strong and durable in operation.

15 The invention consists in the novel constructions and arrangements to be hereinafter described and claimed for carrying out the above stated object and such other objects as will appear from the following description of a certain preferred embodiment  
20 illustrated in the accompanying drawings, wherein—

Fig. 1 is a perspective view of a polishing implement embodying the principles of my  
25 invention;

Fig. 2 is a longitudinal sectional view, on an enlarged scale, of the polishing implement, certain portions thereof being broken  
out; and

30 Figs. 3 and 4 are sectional views taken on the lines 3—3 and 4—4, respectively, of Fig. 2.

Like characters of reference designate like parts in the several views.

35 The polishing implement includes a holder 8 which is provided at one end with a transversely extending enlarged portion 9, the extremity of the holder adjacent said portion being rounded to provide a smooth surface  
40 10 for one end of a polishing strip 11 to bear against. This end of the holder is provided with a grip portion 12 and with means adapted to grip the adjacent end of the strip 11; said means preferably is in the form of a  
45 U-shaped clamping member 13 having a transversely extending medial portion 13<sup>a</sup> and arms 13<sup>b</sup>, the free extremities of said arms being perforated and swingably connected to the holder portion 9 by pivot pins  
50 14 extending through the respective perforations in said arms and into the respective ends of said holder portion. The arrangement is such that the distance between the axes of the pins 14 and the surface 10 is  
55 somewhat greater than the distance between

the axes of said pins and the medial portion 13<sup>a</sup>, consequently, when the clamping member is swung downwardly, the medial portion 13<sup>a</sup> thereof will bear against the upper surface of the extremity of the holder. The  
60 end of the strip 11 is inserted between the arms 13<sup>b</sup> and is slipped between the under edge of the medial portion 13<sup>a</sup> and the surface 10. The main portion of the strip is then brought around over the medial portion  
65 13<sup>a</sup> and into engagement with the lower part of the surface 10. When the strip 11 is pulled lengthwise away from the clamping member, therefore, the clamping member will be pulled down and the extremity of the  
70 strip will be pinched between the lower edge of the medial portion 13<sup>a</sup> and the upper part of the surface 10, thus holding it securely against slippage.

The other end of the holder is provided  
75 with a transversely extending enlarged portion 15 which is provided with a centrally disposed slot 16 for the insertion of a gripping member 17. The bifurcated portions are perforated for the insertion of a tubular  
80 member 18, said gripping member 17 also being perforated so that the member 18 may be slipped through it, whereby the gripping member is pivotally mounted on said member 18 and is swingable relative to the holder.  
85 This end of the holder is provided with means to grip the adjacent end of the strip 11; said means preferably is in the form of a U-shaped clamping member 19 having a transversely extending medial portion 19<sup>a</sup>  
90 and arms 19<sup>b</sup>, the free extremities of said arms being perforated and swingably connected to the holder by pivot pins 20 which extend through the respective perforations in said arms and are driven into the respective  
95 open ends of the tubular member 18. Driving the pins 20 into the member 18 expands its ends sufficiently to hold it securely in the holder. The gripping member 17 is provided with a foot portion 21 and the  
100 parts are so arranged that the distance between the axes of the pins 20 and the extremity of the foot portion 21 is somewhat greater than the distance between the axes of said pins and the medial portion 19<sup>a</sup> of  
105 the clamping member. When it is desired to grip the adjacent end of the strip 11, the gripping member 17 is swung around in a clockwise direction and the clamping member associated therewith is swung substan-  
110

tially into the positions shown in dotted lines in Fig. 1. When the clamping member is in said position, the adjacent end of the strip 11 may be brought around the transverse medial portion 19<sup>a</sup> and inserted between the arms 19<sup>b</sup>, the extremity of the strip being slipped between the medial portion 19<sup>a</sup> and the extremity of the foot portion 21. The gripping member 17 may now be swung around in an anti-clockwise direction, which results in the parts being moved substantially into the position shown in Fig. 2.

Since the strip 11 is secured at both ends against slippage, it will be obvious, upon swinging the gripping member 17 in an anti-clockwise direction, that is to say, by swinging it so that the finger engaging portion thereof is moved toward the grip portion 12, that the strip 11 may be placed under the desired tension. The holder may be gripped in any one of several ways, one convenient way being to pass the ring finger under the gripping member 12 and bring the thumb of the same hand into engagement with the under side of the gripping member 17. The strip may then be placed under the desired tension and the holder moved to and fro in the same manner as an ordinary buffer.

The polishing strip 11 is preferably of the construction described and claimed in my aforesaid prior application.

When the holder of the implement is constructed in the manner herein described, it may be easily manufactured from such materials as celluloid or, what is commonly called in the trade, "French ivory." Bifurcating the end of the holder for the insertion of the gripping member 17 provides a much stronger construction than is the case when the head of the gripping member is bifurcated and the end of the holder is reduced in width sufficiently to be inserted thereinto. The insertion of the tubular member 18 in the bifurcated portions 15 rigidifies and strengthens that end of the holder and, by using a tube of the proper diameter, pins of the same size as those used for fastening the clamping member 13, may be used for fastening the clamping member 19. Driving the pins 20 into the respective ends of the member 18 avoids the necessity of providing special holes for those pins. In the manufacture of an article of this kind in large quantities the interchangeability and standardization of parts and the elimination of drilling operations is a matter of considerable importance. The gripping member 17 may be punched or stamped from a sheet of material since it is of uniform thickness throughout its length and has no bifurcated head portion, thus reducing the cost of manufacturing this part to a minimum. The member 17 is preferably mounted on the holder and buffed or polished at the same

time the body of the holder is buffed or polished whereby independent handling of this small part is avoided and, consequently, the cost of polishing the part is reduced to a minimum.

I do not intend to limit my invention to the details of construction and arrangements shown and described except only in so far as certain of the appended claims are specifically so limited, as it will be obvious to those skilled in the art that modifications may be made without departing from the spirit of my invention.

I claim:

1. A device of the class described comprising a holder, a strip of polishing material, means to fasten said strip at one end to one end of said holder, a fastening member provided on the other end of said holder and adapted to be engaged by the other end of said strip, and handle means for said holder including a grip member and also a finger member which is movably mounted on said holder and adapted to move said fastening member relative to said holder, said finger member being adapted upon movement relative to the grip member to vary the tension of the strip in normal operation of the device.

2. A device of the class described comprising a holder, a strip of polishing material, means to fasten said strip at one end to one end of said holder, a fastening member pivoted on the other end of said holder and adapted to be engaged by the other end of said strip, and handle means for said holder including a finger member pivoted on said holder and adapted to swing said fastening member relative to said holder, for the purpose specified.

3. A device of the class described comprising a holder, a strip of polishing material, means to fasten said strip at one end to one end of said holder, a U-shaped member having its extremities pivoted to the other end of said holder and arranged so that the other end of said strip may be brought around the medial portion thereof, and handle means for said holder including a finger member pivoted on said holder and adapted to swing said U-shaped member relative to said holder, for the purpose specified.

4. A device of the class described comprising a holder, a strip of polishing material, means to fasten said strip at one end to one end of said holder, a transversely extending member on the other end of said holder, a U-shaped member having its extremities pivoted to the respective ends of said transverse member and arranged so that the other end of said strip may be brought around the medial portion thereof, and handle means for said holder including a finger member pivoted on said transverse

member and adapted to swing said U-shaped member relative to said holder, for the purpose specified.

5 A device of the class described comprising a holder, a strip of polishing material, means to fasten said strip at one end to one end of said holder, the other end of said holder being bifurcated, a pivot member extending through the bifurcated ends  
10 of said holder, a U-shaped clamping member having its extremities pivoted to the respective extremities of said pivot member and arranged so that the other end of said strip may be brought around the medial  
15 portion thereof, and handle means for said holder including a finger member swingably mounted on said pivot member and adapted to swing said U-shaped member relative to said holder, for the purpose specified.

20 6. A device of the class described, comprising a holder, a strip of polishing material, means to fasten said strip at one end to one end of said holder, the other end of said holder being bifurcated, a tubular member extending through the bifurcated ends of  
25 said holder, a U-shaped clamping member having its extremities perforated, pins extending through said respective perforations and into the respective ends of said tubular member, said U-shaped clamping member  
30 being so arranged that the other end of said strip may be brought around the medial portion thereof, and handle means for said holder including a finger member swingably  
35 mounted on said tubular member and adapted to swing said U-shaped member relative to said holder, for the purpose specified.

7. A device of the class described comprising a holder, a polishing strip, means to attach said strip at one end to one end of  
40 said holder, a strip engaging member movably mounted on the other end of said holder, and finger engaging means movably mounted on said holder and adapted first to secure said strip against slippage relative to  
45 said member and then to move said member relative to said holder thereby tensioning the strip in the direction of its length.

8. A device of the class described comprising a holder, a polishing strip, means to attach said strip at one end to one end of  
50 said holder, a U-shaped member having its extremities pivoted to the other end of said holder and arranged so that the other end of said strip may be brought around the  
55 medial portion thereof, and finger engaging means pivoted on the holder and adapted first to press the strip against said medial portion to secure the strip against slip-  
60 page relative to said member and then to swing said member on said holder thereby tensioning said strip in the direction of its length.

9. A device of the class described comprising a holder, a polishing strip, means to  
65 attach said strip at one end to one end of said holder, pivot means carried by the other end of said holder, a strip engaging member mounted on said pivot means, and finger  
engaging means mounted on said pivot  
70 means and adapted to swing said member relative to said holder, for the purpose specified.

PHILIP C. P. BOOTY.