E. BERTSCHINGER.

BUFFING WHEEL HOOD.

APPLICATION FILED JUNE 29, 1920.

**1,357,308.** **Patented Nov. 2, 1920.**

*Fig. 1.*

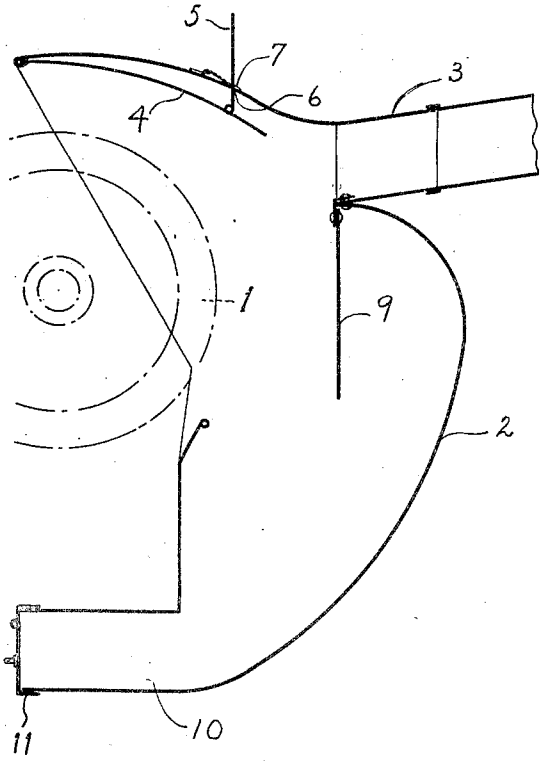



*Fig. 2.*

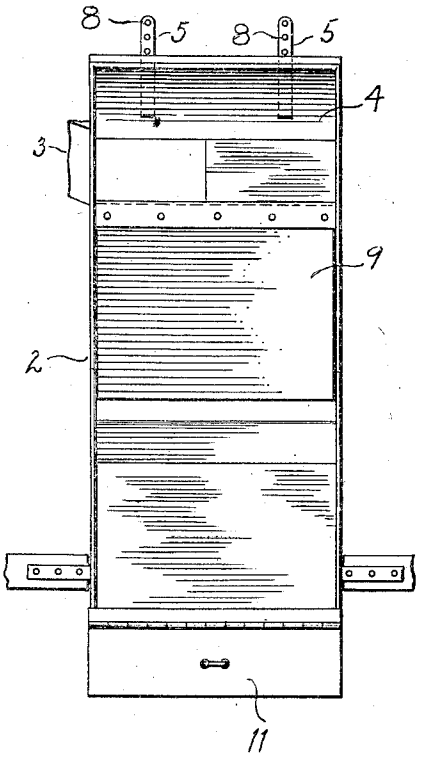
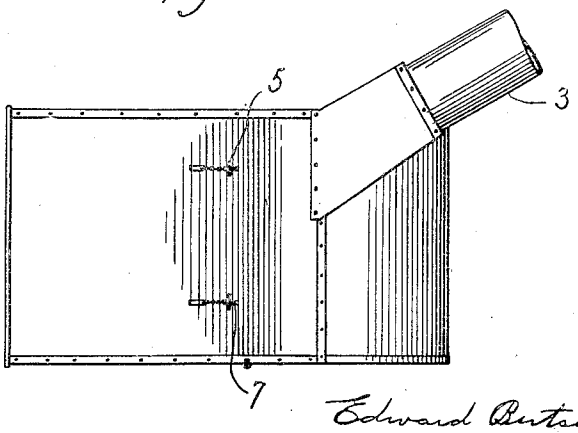



*Fig. 3.*




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# UNITED STATES PATENT OFFICE.

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## BUFFING-WHEEL HOOD.

1,357,308. Specification of Letters Patent. Patented Nov. 2, 1920.

Application filed June 29, 1920. Serial No. 392,727.

*To all whom it may concern:*

Be it known that I, EDWARD BERTSCHINGER, a citizen of the United States, residing in College Point, New York, have invented a certain new and useful Improvement in Buffing-Wheel Hoods, of which the following is a full, clear, and exact description, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to hoods for buffing wheels used for polishing articles, such as hard rubber combs and the like, and the objects of the invention are to provide a hood for said buffing wheels that is arranged to prevent the suction applied to said hoods, for removing the lint and dust, from drawing the article to be polished, when it slips from the operator's hand, up the suction pipe to be broken and lost.

To the accomplishment of the above objects and to such others as may hereinafter appear, the invention comprises a hood, which partially surrounds said buffing wheel, provided with a deflector in the path of the suction pipe, which acts to deflect articles lost in polishing toward a flexible curtain which breaks the force of the article, permitting it to drop to the bottom of the hood into a receptacle within easy reach of the operator, where it can be recovered for further polishing.

Referring to the drawings:

Figure 1 is a longitudinal sectional view of a hood, made in accordance with the present invention, the position of the buffing wheel being indicated by dotted lines, the view being more or less diagrammatic for clearness of illustration.

Fig. 2 is a front end view of the hood.

Fig. 3 is a top view of the hood.

In the drawings, 1 designates a suitable polishing wheel or buff usually run at a high rate of speed for polishing hard rubber articles, such as combs. The polishing wheel 1 is arranged to be partly surrounded by the open end of a suction hood 2, to which is connected a suitable suction pipe 3 extending rearwardly, in the present instance, from the upper end of the hood as shown in the drawings. Suitable suction means not shown is connected to the suction pipe 3 for removing the lint and dust made in polishing.

To the upper front end of the hood 2 is suitably hinged one end of a baffle plate or deflector 4, made to overhang the top of the polishing wheel 1, the same being preferably curved throughout its length and arranged to extend beyond the back of the polishing wheel. The free end of the deflector 4 is provided, in the present instance, with two adjusting straps 5 secured at one end to the top of the deflector, the free ends of the straps extending upward through suitable openings 6 in the top of the hood where they are adjustably secured by means of suitable pins 7, which pass through suitable holes 8 in the straps 5.

From the above it will be seen that the free end of the deflector can be raised or lowered by adjusting the position of the straps 5.

Suitably secured at its upper edge to the inner back portion of the hood is a flap or curtain 9, preferably made of rubber or other soft material, left free to swing, which acts to break the force of the articles deflected by the deflector 4 against it. In the present instance the curtain 9 is secured to the back of the hood just below the suction pipe 3, the hood in the rear of the curtain being extended outward to permit of the curtain swinging rearwardly when struck. It is also to be noted that the curtain is placed back of the polishing wheel and rearwardly of the deflector the parts being so arranged as to catch all articles lost in polishing, leaving the suction pipe free to remove dust and lint.

The lower part of the hood 2 is arranged to form a pocket terminating in a discharge box 10 having a removable hinged cover 11, from which articles lost in polishing can be removed.

From the above description it will be seen that when articles, such as hard rubber combs, slip from the operator's hands in polishing the same are not lost by being drawn up the suction pipe, but are deflected by the deflector against the curtain in the rear of the hood which breaks the force of the blow permitting the article to be recovered from the bottom of the hood out of the receptacle provided for the purpose usually without injury to be further polished.

While the invention has been described with particular reference to the details of construction the same is not to be considered as limited thereto as many changes can be

made and still fall within the scope of the invention set forth in the following claims.

What I claim is:

1. A buffing wheel hood, for polishing articles such as hard rubber combs and the like comprising in combination a deflector, and a flexible curtain, said deflector being arranged to deflect articles lost in polishing against said flexible curtain as and for the purposes set forth.

2. A buffing wheel hood, for polishing articles such as hard rubber combs and the like comprising in combination a suction pipe, a deflector, and a flexible curtain, said deflector being situated on one side of said suction pipe and said flexible curtain on the other, to prevent articles lost in polishing being discharged through said suction pipe, as and for the purposes set forth.

3. A buffing wheel hood, for polishing articles such as hard rubber combs and the like comprising in combination a curved deflector arranged to extend over the top of the buffing wheel a curtain arranged to extend over the back of said buffing wheel and a suction pipe arranged between the rear end of said deflector and the top of said curtain, as and for the purposes set forth.

4. A buffing wheel hood, for polishing articles such as hard rubber combs and the like comprising in combination an adjustable curved deflector arranged to extend over the top of the buffing wheel, a loosely hung curtain arranged to hang in the rear of said buffing wheel, a suction pipe arranged between the rear end of said deflector and the top of said curtain, a receptacle below said curtain for catching articles stopped by said curtain as and for the purposes set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

EDWARD BERTSCHINGER.

Witnesses:

WALTER CLARK,

H. A. COZZENS, JR.