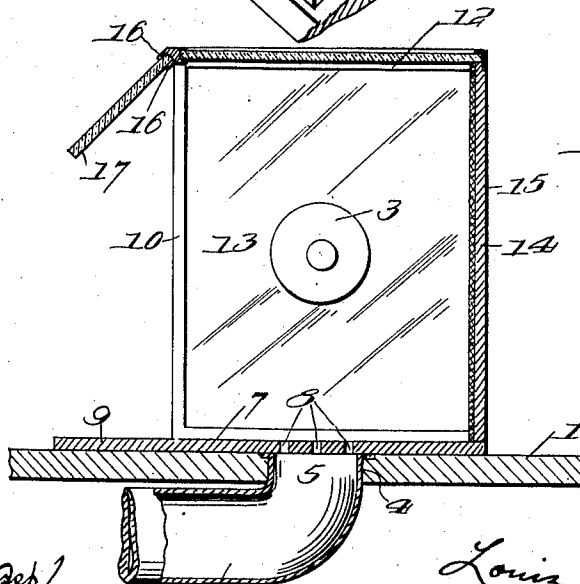
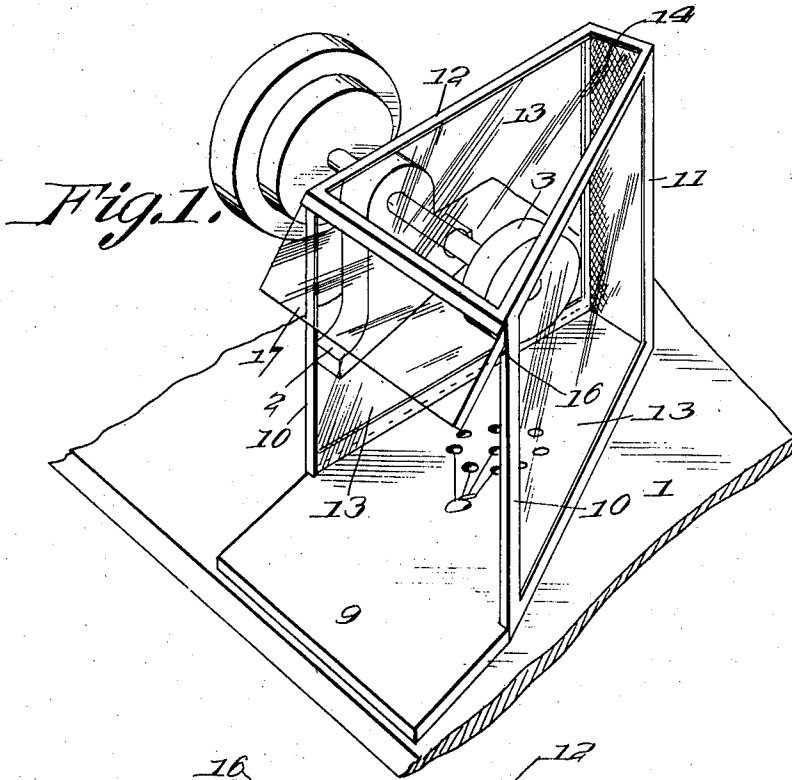


L. E. SADLER.
POLISHING HOOD.
APPLICATION FILED JUNE 24, 1912.

1,047,571.

Patented Dec. 17, 1912



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POLISHING-HOOD.

1,047,571.

Specification of Letters Patent.

Patented Dec. 17, 1912.

Application filed June 24, 1912. Serial No. 705,587.

To all whom it may concern:

Be it known that I, LOUIS E. SADLER, a citizen of the United States, residing at Attleboro, in the county of Bristol and State of Massachusetts, have invented a new and useful Improvement in Polishing-Hoods, of which the following is a specification.

This invention relates to certain new and useful improvements in polishing hoods, and the objects of the invention are to provide a hood of this character in which the same is formed of glass so as to enable the operator to perfectly see the work during the grinding or polishing operation, and further to so construct the hood that the products resulting from the grinding or polishing operation will be deflected rearwardly, in a direction away from the operator, where they may be caught at the rear or back side of the hood, by a felt, or similar member.

In the drawings—Figure 1 is a perspective view of the invention, and Fig. 2 is a vertical sectional view of Fig. 1.

The bench 1 on which the bearing 2 of the polishing wheel 3 is secured is formed with an opening 4 in which is inset the upturned end 5 of a suction pipe 6. The base board 7 of the polishing hood is formed with a plurality of apertures 8 which communicate with the end 5 of the suction pipe in order to carry off the products resulting from the polishing or grinding operation. The base board 7 is of substantially triangular form, and is provided with an apron or extension 9 at its front in order to form a rigid and substantial support for the base board on the bench 1. A metal frame which consists of side panels 10, a back panel 11, and a top panel 12, is carried by the base board, the side panels 10 converging at the rear or back panel. Glass plates 13 are secured in the two side and top panels, in order to allow the operator to readily and perfectly observe the work during the polishing operation, and by virtue of the side glass plates being inclined toward each other at the back side of the hood, it will be evident that any particles of matter which result from the grinding operation, will, in coming in contact with the glass side plates be deflected in a direction toward the back of the hood, and for the purpose of holding

the particles of matter so thrown rearwardly, a section of felt or similar material 14 is secured to the back 15, which latter may be of wood, or other suitable material. Owing to the smooth side faces afforded by the glass plates 13, it will be seen that the particles thrown off during the grinding operation will be assisted in their rearward deflection in a direction toward the felt back 14.

The front end of the top panel 12 is formed with a transverse metal clamp 16 in which the inner longitudinal side of an inclined glass guard 17 is held. The glass guard by virtue of its downward inclination serves to protect the operator against flying sparks, or other particles or matter which result from grinding operation.

From the above it will be evident that the operator is enabled to see at all times the work during the grinding operation, and at the same time ample protection is provided against flying sparks or other particles which follow the grinding operation. By wetting the felt back 14, the particles contacting therewith will have an increased degree of adherence therewith.

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

1. In a polishing hood, a base board having a triangular major portion and a front extension, a metal frame having side panels, a top panel, and a back panel secured to the base board, glass plates in the side panels and the top panel, a back plate in the back panel, a section of felt covering and secured to the back plate, a metal clamp carried by the top panel at the front side thereof, and a downwardly inclined glass guard having one side secured in said clamp.

2. In a polishing hood, a frame having rearwardly converging vertical side panels, a top panel and a vertical back panel, glass plates in the sides and top, a plate in the back, a transverse clamp carried by the front side of the top of the frame, and a downwardly inclined guard having its rear side secured in said clamp.

3. In a polishing hood, a base, a pair of opposite rearwardly converging vertical side plates secured to the base to deflect the

particles of matter resulting from the grinding operation toward the rear ends of said side plates, a back plate connected to the rear ends of said side plates, and a top plate
5 of glass connecting and secured to the upper sides of the side plates.

In testimony whereof I have signed my

name to this specification in the presence of two subscribing witnesses.

LOUIS E. SADLER.

Witnesses:

F. H. SADLER,

FRED B. BYRAM.