

F. W. GESSWEIN.
Polishing Wheels.

No. 133,978.

Patented Dec. 17, 1872.

Fig. 1.

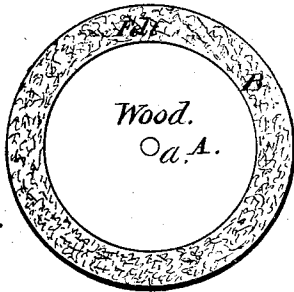


Fig. 2.

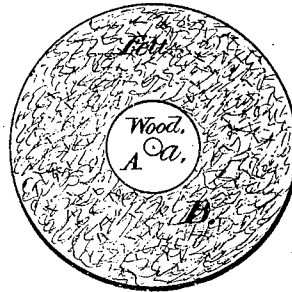


Fig. 3.

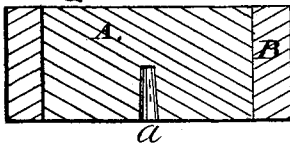


Fig. 4.

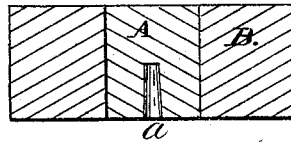


Fig. 5.

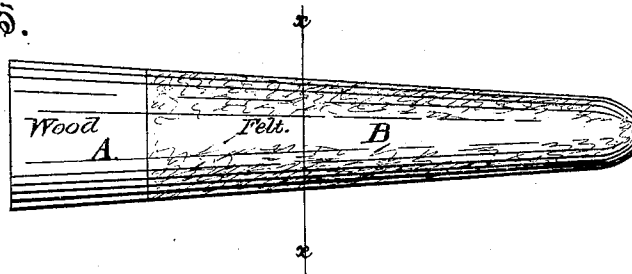
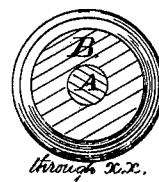


Fig. 6.



Witnesses.

J. P. Crawford
E. H. Johnson

Inventor.

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per A. C. Dugan
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UNITED STATES PATENT OFFICE.

FREDERICK W. GESSWEIN, OF JERSEY CITY, NEW JERSEY.

IMPROVEMENT IN POLISHING-WHEELS.

Specification forming part of Letters Patent No. 133,978, dated December 17, 1872.

To all whom it may concern:

Be it known that I, FREDERICK W. GESSWEIN, of Jersey City, Hudson county, New Jersey, have invented a new and useful Improved Polishing-Wheel for Watchmakers, Jewelers, &c., of which the following is a specification:

Nature and Objects of the Invention.

My invention relates to polishing-wheels used by watchmakers, jewelers, &c. Prior to the date of my invention, so far as known to me, polishing-wheels for the above trades had been made by lapping one or more layers of felt or elastic material (for a soft surface to receive the crocus, rouge, or other substance used in polishing) upon a wooden or metallic center. The lap of the seams in such cases would soon get loose and roughen up in practice, thus rendering the wheel useless, and, during polishing, the glue serving to unite the joint would scratch and damage the article polished, and it was with great care and difficulty that they could be made so as to rotate evenly and true by reason of such lap-joints. My invention is designed to obviate this; and the invention consists in the employment and use of an endless band of felt or other analogous material applied to a solid center, which is perforated for a rotating mandrel, whereby I am enabled to make a new and improved article of manufacture for watchmakers, jewelers, and other polishing-wheels, which are very durable and perfect in their operation.

Description of the Drawing.

Figures 1 and 2 are plan views of the polishing-wheels. Figs. 3 and 4 are sections of the same through their diameters. Figs. 5 and 6 show a polisher of conical form used on rings and other circular articles.

General Description.

A A represents a cylindrical block of wood, leather, or other suitable solid substance turned to the desired size, and having a central hole, *a*, bored therein for the reception of a screw or frictional mandrel.

I cut from a sheet of felt or analogous soft or elastic material, by means of punches or dies, a ring or tube, B, of the desired diameter and thickness, and force it over the cylinder, which has been cemented to keep it in place.

Fig. 5 represents a conical polishing-cylinder, the elastic material of which is first cut in bars of the required length, drilled lengthwise, forced over the wooden core, and the wheel is then turned down to the desired shape in the lathe.

Claim.

As a new and improved article of manufacture, a polishing-wheel, constructed substantially in the manner described.

FREDERICK W. GESSWEIN.

Witnesses:

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