(No Model.)

# F. P. PFLEGHAR.

## POLISHING WHEEL.

No. 372,041. Patented Oct. 25, 1887.

*Fig. 1.*

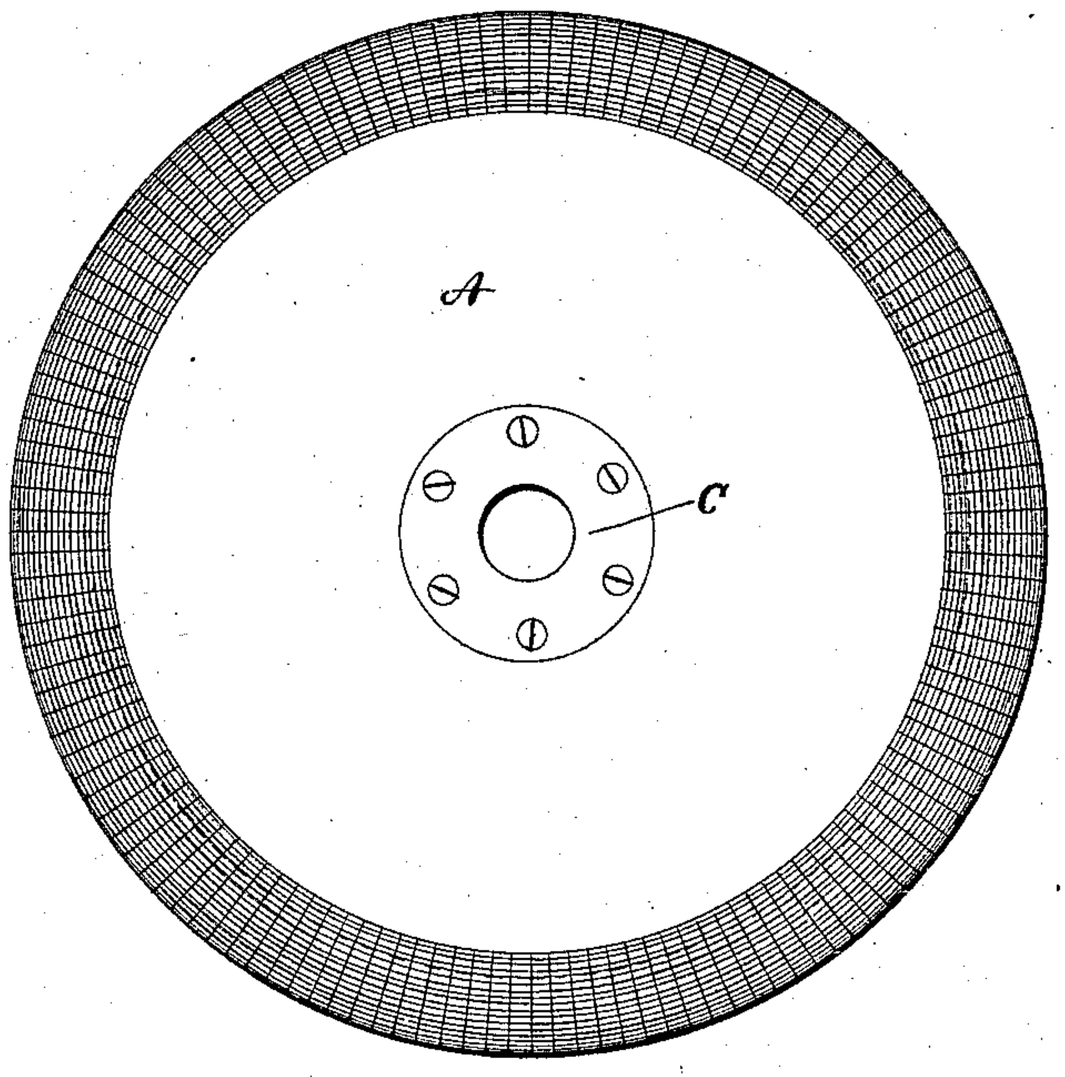



*Fig. 2.*

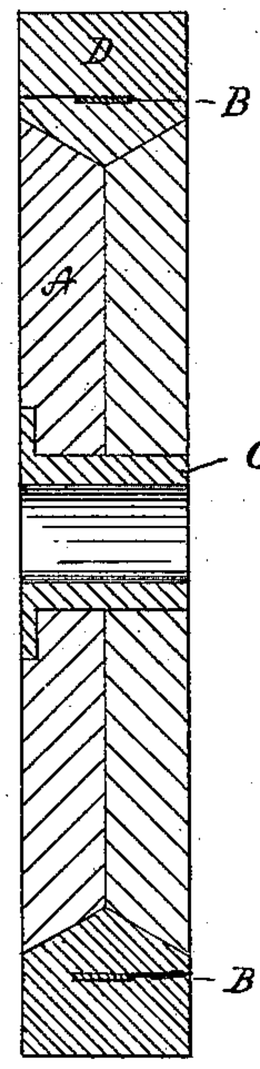



*Fig. 4.*

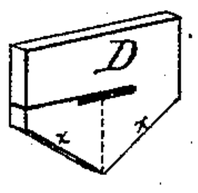
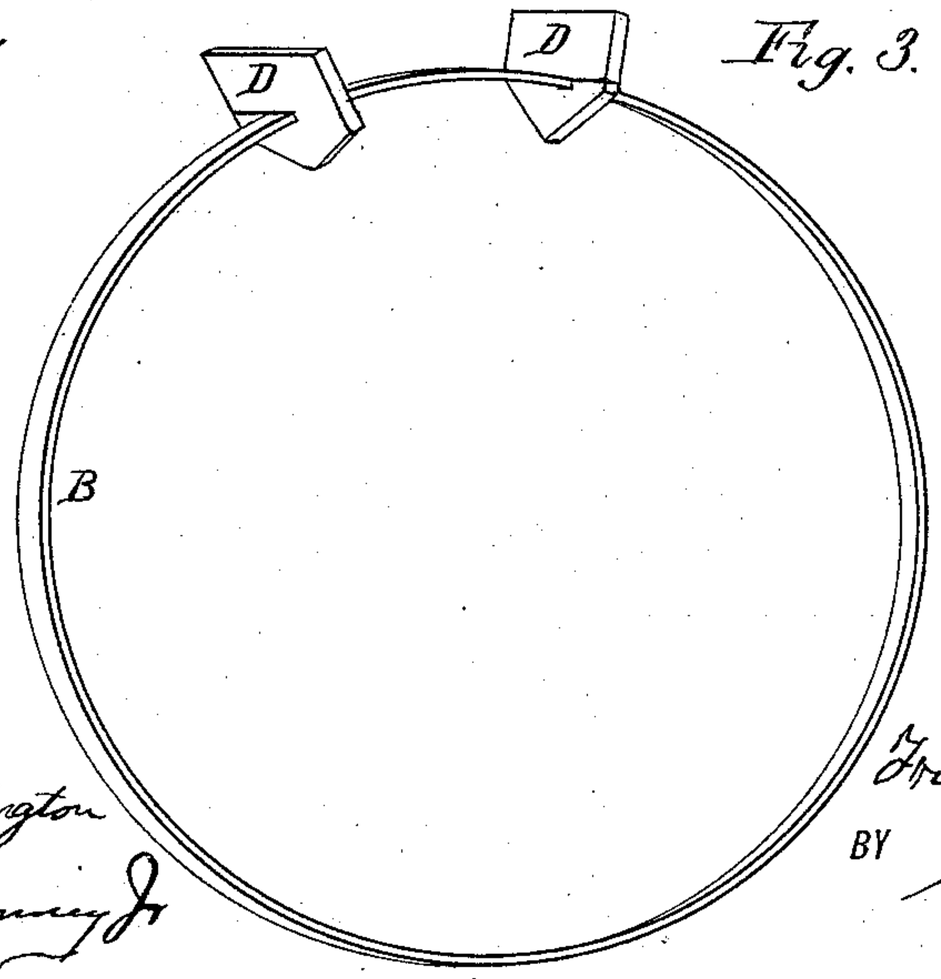



*Fig. 3.*

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# UNITED STATES PATENT OFFICE.

FRANK P. PFLEGHAR, OF NEW HAVEN, CONNECTICUT.

## POLISHING-WHEEL.

SPECIFICATION forming part of Letters Patent No. 372,041, dated October 25, 1887.

Application filed February 23, 1887. Serial No. 228,467. (No model.)

*To all whom it may concern:*

Be it known that I, FRANK P. PFLEGHAR, a citizen of the United States, residing at New Haven, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Polishing-Wheels, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to a class of wheels which have a central part of suitable material and an outer edge or face of pieces of leather arranged at right angles to the plane of the wheel.

The invention consists in improved means for fastening the leather parts or pieces to the central part, and in making the central part in two pieces to compress the leather pieces, as is hereinafter more fully described and claimed.

Figure 1 is an elevation of the wheel; Fig. 2, a diametrical section of the same; Fig. 3, a view of a metal band, and Fig. 4 a view of one of the leather pieces.

To enable others to make my improved wheel, I will give an accurate description of its several parts and of the way they are put together.

The central part, A, of the wheel is made in two parts, or is composed of two circular pieces with beveled edges, as shown in Fig. 2. These parts are put together so that the sides of the parts having the shortest diameters will come together and are fastened together by screws. These central parts or pieces and the leather pieces are made of such size that the central pieces will come against the leather pieces, as at the points *x*, Fig. 4, and press the leather pieces against the band B as the parts are brought together, whereby the parts of the leather pieces between the central pieces and the band will be compressed. The wheel has the usual center part, C, which needs no description.

The band B may be made of sheet metal, its ends being brazed or otherwise fastened together. A very strong band may be made of wire, whose thickness equals the thickness of the desired band. The wire is wound for this purpose on a cylinder of the proper size and its spirals or turns soldered together with soft solder. Instead of a flat band, a round wire band may be used.

The leather pieces D are made in the form shown in Fig. 4—that is, each with its polishing-edge straight and the edge which fits against the central part, A, made angular or V-shaped. Each of these pieces is provided with a slot of the width and thickness of the band and a cut extending from the slot to the outer edge to allow the pieces to be put on the band. The cut may be in the direction of the dotted line. That the pieces may be as nearly alike as possible, I prefer to cut them with dies in a press.

To put the several parts together, the leather pieces are dipped in a suitable cement—as, for example, glue—and are then put onto the band, and as many pieces are put onto the band as can be forced on. The pieces of the central part are then put within the ring of leather pieces, brought together, and fastened. The outside of the wheel thus put together is then subjected to pressure by any suitable means—as, for example, a metal band surrounding the leather pieces, the ends of the band being made to approach each other by a screw. As soon as the cement is dry, the band is removed and the wheel is turned and finished.

I am well aware that polishing-wheels have been made with a central part and leather pieces arranged at right angles to the central part, the leather pieces being fastened to the central part in various ways.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The herein-described improved polishing-wheel, composed of an outer polishing-rim consisting of a series of pieces of leather, each of which has its inner edge V-shaped and secured upon a metallic band, B, and a central part, A, composed of two disks having their perimeters beveled to fit against the faces forming the inner edge angle of the polishing-ring, the said disks being forced and secured together, whereby the leather pieces composing the polishing-ring are compressed

between the said disks and the band B and the rim made compact, as set forth.

2. A polishing-wheel having a central part and leather pieces arranged at right angles to the central part, the leather pieces having slots, through which a band passes, and cuts extending from the slots to the edges of the pieces, as described.

In testimony whereof I affix my signature in presence of two witnesses.

FRANK P. PFLEGHAR.

Witnesses:
GEORGE TERRY,
DANIEL S. GLENNEY, Jr.