G. W. CHORMANN.

TAG OR MARKING DEVICE FOR DISKS.

APPLICATION FILED JULY 1, 1913.

1,198,891. Patented Sept. 19, 1916.

Fig. 1.

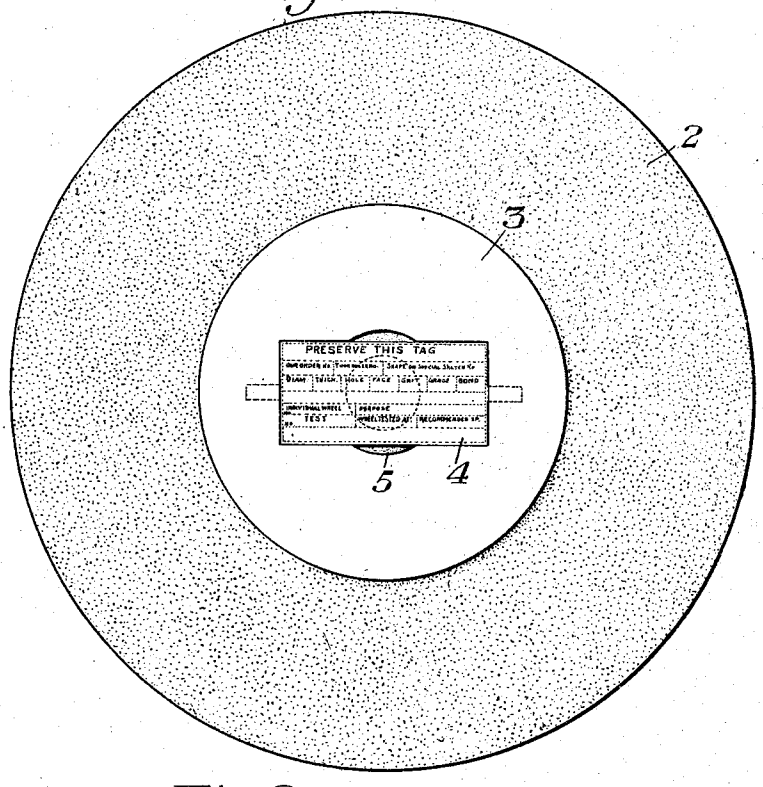


Fig. 2.

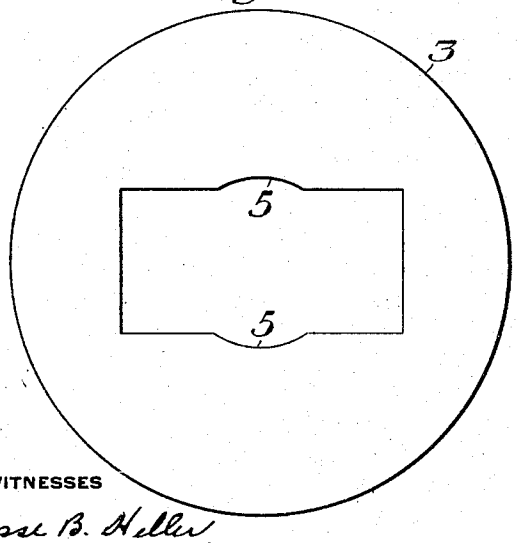
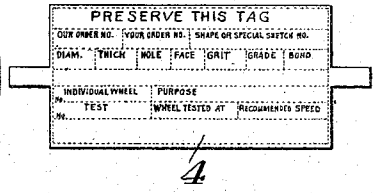


Fig. 3.



WITNESSES

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UNITED STATES PATENT OFFICE.

GEORGE W. CHORMANN, OF NIAGARA FALLS, NEW YORK, ASSIGNOR TO THE CARBORUNDUM COMPANY, OF NIAGARA FALLS, NEW YORK, A CORPORATION OF PENNSYLVANIA.

TAG OR MARKING DEVICE FOR DISKS.

1,198,891. Specification of Letters Patent. Patented Sept. 19, 1916.

Application filed July 1, 1913. Serial No. 776,892.

To all whom it may concern:

Be it known that I, GEORGE W. CHORMANN, a citizen of the United States, residing at Niagara Falls, Niagara county, New York, have invented a new and useful Tag or Marking Device for Disks, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a face view showing a grinding wheel provided with my improved washer and tag; Fig. 2 is a plan view of the washer; and Fig. 3 is a detail view showing the tag.

My invention has relation to a novel marking device or tag, particularly applicable to disks and wheels, such as grinding wheels, and is designed to overcome certain difficulties heretofore incident to these parts. I will now describe the invention as applied to a grinding wheel, although it is applicable to other disks.

Washers are applied to finished grinding wheels, generally by gluing two paper washers usually of soft pulp paper or blotting paper, one on each side of the wheel around the central arbor hole. These washers form a cushion between the clamping flanges and the surface of the wheel, which may have slight inequalities, thus avoiding undue strains when the flanges are tightened to hold the wheel on the shaft. In addition to these washers it is the usual practice to apply to each wheel a detachable tag containing information in regard to the wheel. Thus, the tag may give the grit and grade of the wheel, the order number and size, the purpose for which it is to be used, data giving test speed, and the speed at which it is to be operated. It is desirable that this tag should remain on the wheel during shipment and during storage at the place to be used until it is placed on the grinding machine by the operator. The operator takes off this tag when starting to use the wheel, and preserves it in order to identify the wheel when worn down, thus keeping a record of it. The tag is now usually glued at one corner or end, either to the side surface of the wheel, or to one of the washers. In one case this leaves glue which gums up one side of the wheel, and in the other it gives an uneven thickness on the washer, causing uneven bearing of the clamping flanges. Moreover, in either case, the tag being loose for most of its length is liable to be rubbed off in shipment or in storage.

My invention overcomes these difficulties, and consists in cutting out a portion of the washer to receive the tag, both of them being secured directly to the surface of the wheel, one inclosing the other.

In the drawings, 2 represents a grinding wheel; 3 one of the paper washers which is glued around the center arbor hole, this washer having the central cut-out portion or recess, preferably of oblong form, around the arbor hole. In this recess is cemented, or otherwise secured, the tag 4, which tag may have any desirable data thereon relating to the wheel, such as indicated. This tag may have end stubs or tabs, which are glued to the wheel to hold the tag in place; and when the wheel is to be used the tag is torn away from the end stubs or tabs and preserved for reference when the wheel is worn down to a stub. To give ready access to this tag I have shown the recess in the washer as slightly enlarged at the sides of the tag, as shown at 5.

The advantages of my invention will be obvious to those skilled in the art. Data in regard to the wheel must be applied to a detachable tag, as otherwise it would be lost during use. The present method of attaching the tag presents many disadvantages, which are overcome by my system of recessing the washer to receive the tag. The wheel is not disfigured, no unsightly lumps of glue are left on the wheel, an even seat is afforded for the clamping flange, and an attractive appearance presented, while the tag is protected from accidental tearing or rubbing off.

Grinding wheels are ordinarily kept in stock rooms in racks or shelves, the wheels being set on edge and stacked closely together, one wheel touching another on each side. In order to inspect the tags on a wheel to determine its grit and other specifications, it is necessary to pull the wheel out. In this operation is rubs against the wheels on either side of it, and unless the tags are protected in some manner, they are rubbed off and lost after a short time by reason of this operation. By my invention, the tag being set in a recess in the washer, which is of a thickness equal to or greater than the tag, the recess acts as a pocket protector for

the tag and prevents injury to it from any sliding of the wheel against an abutting surface.

Changes may be made in the form and material of the washer, the tag, and the means for securing them, without departing from my invention, as defined in the appended claims.

By the term "washer" as used herein and in the appended claims, I refer to a disk of paper or similar soft material which can be readily attached to the outside of a grinding wheel around the arbor hole thereof, to form a cushion between the flange and the wheel.

I claim:—

1. A combination tag for wheels, disks and the like, comprising an outer tag member adapted to be permanently fastened to the face of a wheel or disk and having a recess or opening therein, and an inner tag not exceeding the outer member in thickness, and set in said opening or recess and protected by the outer member, said inner member having attaching tabs which extend underneath and are secured to the outer member at the sides of the recess or opening, substantially as described.

2. A combination tag for wheels, disks and the like, comprising an outer substantially flat surfaced member of soft cushioning material such as paper, adapted to be permanently secured to the face of a wheel or disk, and having an opening therein, and an inner tag member set within said opening, said inner member not exceeding in thickness the outer member and being detachably secured to and protected thereby, substantially as described.

3. A combination tag for wheels, disks and the like, comprising an outer substantially flat surfaced member of soft cushioning material such as paper, adapted to be permanently secured to the face of a wheel or disk, and having an opening therein, and an inner tag member set within said opening and being inclosed therein by said outer member, the inner member being detachably secured to the outer member, substantially as described.

In testimony whereof, I have hereunto set my hand.

GEORGE W. CHORMANN.

Witnesses:

F. J. TONE,

R. B. MANLEY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."