J. DOBSON.

GRINDING WHEEL DRESSER.

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1,382,176.

Patented June 21, 1921.

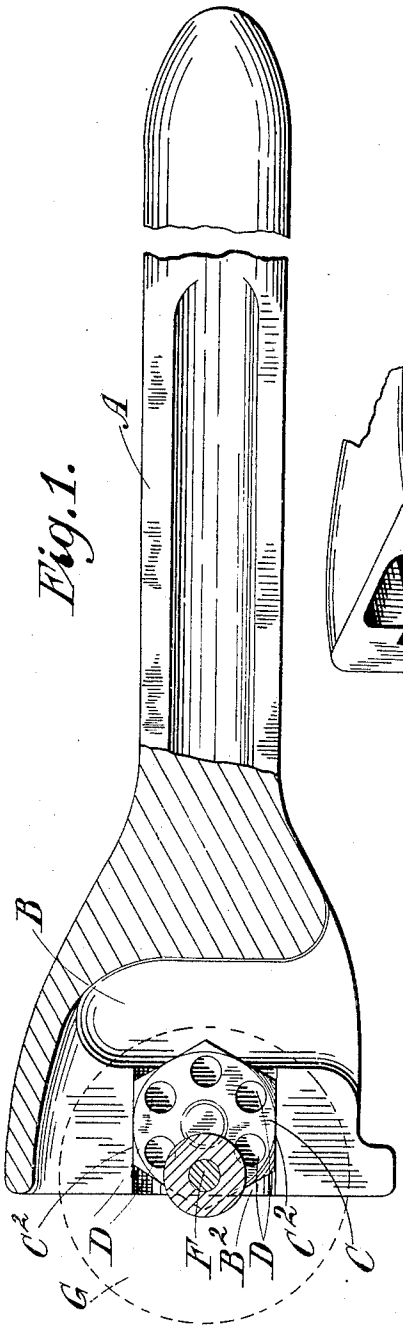


Fig. 1.

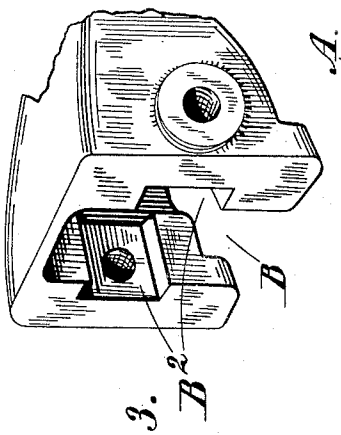


Fig. 3.

Fig. 2.

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UNITED STATES PATENT OFFICE.

JOSEPH DOBSON, OF SHEFFIELD, ENGLAND.

GRINDING-WHEEL DRESSER.

1,382,176. Specification of Letters Patent. Patented June 21, 1921.

Application filed November 22, 1919. Serial No. 340,014.

To all whom it may concern:

Be it known that I, JOSEPH DOBSON, a subject of the King of England, residing at Sheffield, in the county of York, England, have invented certain new and useful Improvements in Grinding-Wheel Dressers, of which the following is a specification.

This invention relates to dressers for grinding wheels and it has for its object to provide a more useful and durable construction than exists at present. Usually the bearings formed in the holder for the spindle wear oval quickly, so that the life of the holder is short, and it has frequently to be renewed.

According to this invention, the bearings are formed in a pair of carriers detachable from the holder, and each carrier is provided with a plurality of bearings or holes constituting the bearings, so that the life of each carrier is considerable. For example, there may be six holes arranged in a circle on a disk, which constitutes a carrier, each hole being used in turn as a bearing.

In the accompanying drawings,

Figure 1 is a side elevation, partly in section, of a dresser constructed in accordance with this invention.

Fig. 2 is a plan of the same partly in section, and

Fig. 3 is a perspective front view of part of the holder.

Like letters indicate like parts throughout the drawings.

In this construction, the holder A is formed with the usual jaws B and the opposed faces of the jaws are slotted or recessed at B^2 to receive the carriers C, which therefore lie against the jaws. Each carrier is preferably polygonal, having as many sides as there are bearing holes D, and the flat sides C^2 engage the sides of the slots or recesses B^2 in the jaws. The carriers are secured to the jaws by screws E screwing into holes in the center of the carriers and it will be clear that the carriers can be fitted in the holder in as many angular positions as there are sides.

To assemble the dresser, the spindle F carrying the grinding disks G is mounted in two holes D in the two carriers and the carriers then inserted into the slots B^2 and secured by the screws E in such a position that the spindle F lies as far from the holder as is possible, as is shown. When these two bearing holes wear oval, the carriers can be withdrawn, the spindle inserted in a fresh pair of holes D and the carriers replaced after having been turned through a small angle to bring the spindle to the front again. The carriers are then again fixed by the central screws E.

It will be noticed that the spindle F is offset from the screws E, and therefore the disks G project considerably from the holder and their life is very much longer than usual as they can wear down much farther than usual before any other parts become damaged by the grinding wheel. Further, that the carriers C can be renewed without the necessity for renewing the holder, and the life of each carrier is also considerable in view of the large number of holes which may be employed.

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

1. In a grinding wheel dresser, the combination of a holder, jaws to said holder, slots in said jaws, a pair of polygonal carriers detachably mounted in said slots, a plurality of bearing holes in said carriers, and a spindle mounted in two of said bearing holes.

2. In a grinding wheel dresser, the combination of a holder, jaws to said holder, slots in said jaws, a polygonal carrier in each of said jaws, screws on said jaws engaging the centers of said carriers, bearing holes in said carriers corresponding in number to the number of sides thereof, and a spindle mounted in two of said bearing holes.

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

JOSEPH DOBSON.

Witnesses:

JAS. LISTER,

BERNARD D. DANIEL.