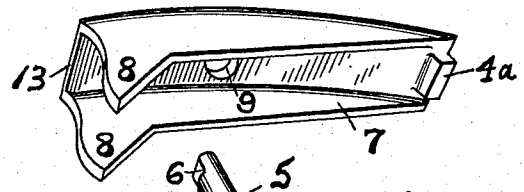
L. A. VAN ORMAN.

TOOL FOR DRESSING ABRASIVE WHEELS.

APPLICATION FILED AUG. 14, 1915.

1,175,207. Patented Mar. 14, 1916.

Fig 5.



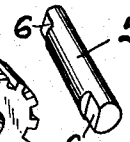
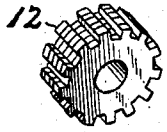


Fig 4.

Fig 3.



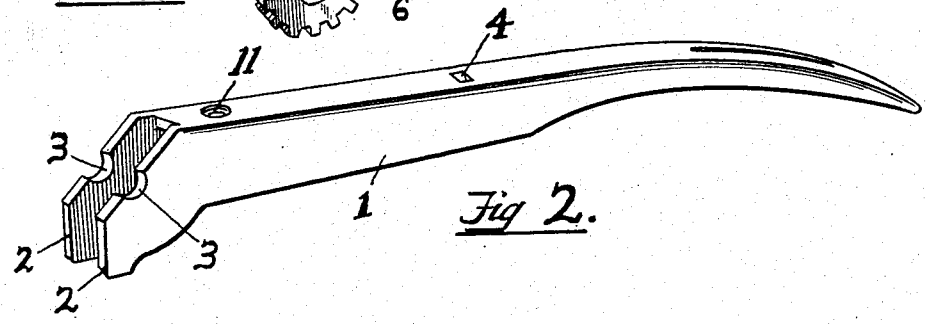


Fig 2.

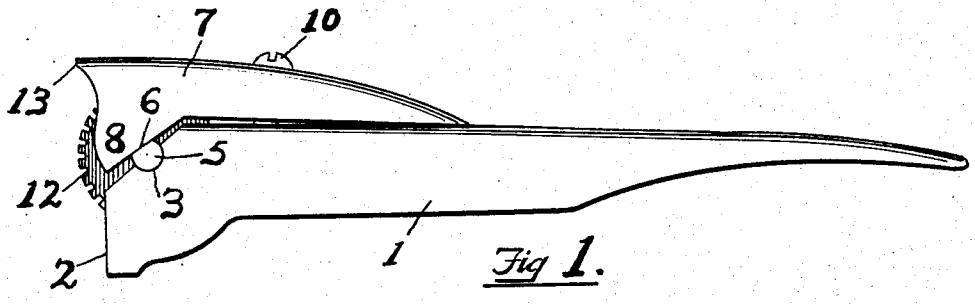


Fig 1.

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LUTHER ALBERTUS VAN ORMAN, OF DETROIT, MICHIGAN, ASSIGNOR OF ONE-HALF TO EDWIN R. MATUSCHEK, OF DETROIT, MICHIGAN.

TOOL FOR DRESSING ABRASIVE WHEELS.

1,175,207. Specification of Letters Patent. Patented Mar. 14, 1916.

Application filed August 14, 1915. Serial No. 45,449.

To all whom it may concern:

Be it known that I, LUTHER ALBERTUS VAN ORMAN, a citizen of the United States of America, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Tools for Dressing Abrasive Wheels; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in tools for dressing abrasive wheels, and its object is to provide a cheaply constructed yet effective tool for said purpose; a tool in which the parts which are subjected to wear may be easily and cheaply replaced; a tool which provides a safety guard against the particles removed from the abrasive wheel in the act of dressing the same from flying into the face and eyes of the operator, as will more fully appear by reference to the accompanying drawing in which:

Figure 1, shows a side elevation of my improved dressing tool; Fig. 2, shows a side elevation, in perspective, of the handle with all removable parts removed therefrom; Fig. 3, is a perspective of the dressing disks; Fig. 4, is a perspective of the shaft on which the dressing disks are journaled; and, Fig. 5, is a perspective of the hood member, which serves the double purpose of a protective guard and a clamp for holding the shaft detachably in place on the handle.

Like numerals refer to like parts in all the figures.

1, is the handle or frame portion of the tool, and the same may be formed from sheet metal or made by casting. This handle is provided with a bifurcated end consisting of the prongs 2, the upper faces of which are inclined and provided with semi-circular recesses 3. The hood member 7, is also provided with a bifurcated end having prongs 8, the lower surfaces of which are inclined at an angle to correspond to the angle of the inclined faces of the prongs 2, of the handle member. The handle 1, is also provided with a recess or opening 4, to receive the lug 4^a, of the member 7, to locate and hold the rear end of the said member 7, in place relative to the handle 1. The handle 1, is also provided with a screw threaded opening 11, to receive the threaded end of the screw 10. The shaft 5, is provided with flattened surfaces 6, at its respective ends.

In assembling the several parts of the tool, the shaft 5, is inserted in the axial openings of the abrading disks 12, a sufficient number of said disks being used to substantially fill the space between the prongs 2, of the handle 1. The shaft 5, with the disks 12, thereon is placed with its ends engaging the recesses 3, with the flattened portions 6, upward and the disks 12, between the prongs 2, of the handle 1. The member 7, is then placed in position, as seen in Fig. 1, with the lug 4^a, entered in the opening 4, of the handle 1, and the inclined faces of the prongs 8, thereof engaging the flattened surfaces 6, of the shaft 5. The screw 10, is then passed through the opening 9, in the member 7, and screwed into the screw threaded opening 11, in the handle 1, until the head of said screw 10, engages the upper surface of the member 7, and thus the several parts of the tool are all securely held in operative position and relation by a single detachable securing means. The shaft 5, will thus be held securely in place and prevented from rotation by being engaged on the flattened portions 6, thereof by the inclined surfaces of the prongs 8, of the member 7.

The projecting end portion 13, of the member 7, forms a hood or guard which will prevent the particles of the abrasive wheel, which is being removed therefrom in trimming, from flying and striking the operator in the face and eyes.

The several parts of the tool may be easily and quickly assembled or disassembled, and the same are all held in place and operative position by a single screw 10.

The prevention of the rotation of the shaft 5, provides a firm and rigid support for the disks 12, and also prevents the wearing away of the frame members where the said shaft 5, engages the same, thus permitting the making the frame members at the point of engagement with the shaft 5, of light thin material, which could not be practically done if the said shaft were permitted to rotate. Thus it will be noted that the tool is practically indestructible, except the

shaft 5, and the disks 12, and these parts may be easily and quickly replaced with a minimum of expense and trouble.

I claim:

1. In a tool of the class described, a handle member, a non-rotatable shaft for rotatably supporting abrading disks, a hood member providing means for detachably securing the said shaft in operative position on said handle and holding said shaft against rotation, and means for detachably securing the said several parts in assembled operative relation.

2. In a tool of the class described, a handle member provided with a recess, a screw threaded opening, and a bifurcated end the prongs of which are provided with recesses, a non-rotatable shaft having flattened surfaces at its ends and adapted to be mounted in the recesses in said prongs, abrading disks rotatably mounted on said shaft, a hood member provided with a lug to engage the first named recess in said handle and also provided with an opening to receive a screw and also provided with a bifurcated end the prongs of which are adapted to engage the flattened surfaces of the said shaft, and a screw extending through the said opening in the hood member and engaging the screw threaded opening in the handle to detachably hold the several parts in assembled operative relation.

In testimony whereof I hereunto affix my signature to the foregoing specification and claims.

LUTHER ALBERTUS VAN ORMAN.

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