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H. H. CANTERBURY

FILE HOLDER

Filed July 7, 1925

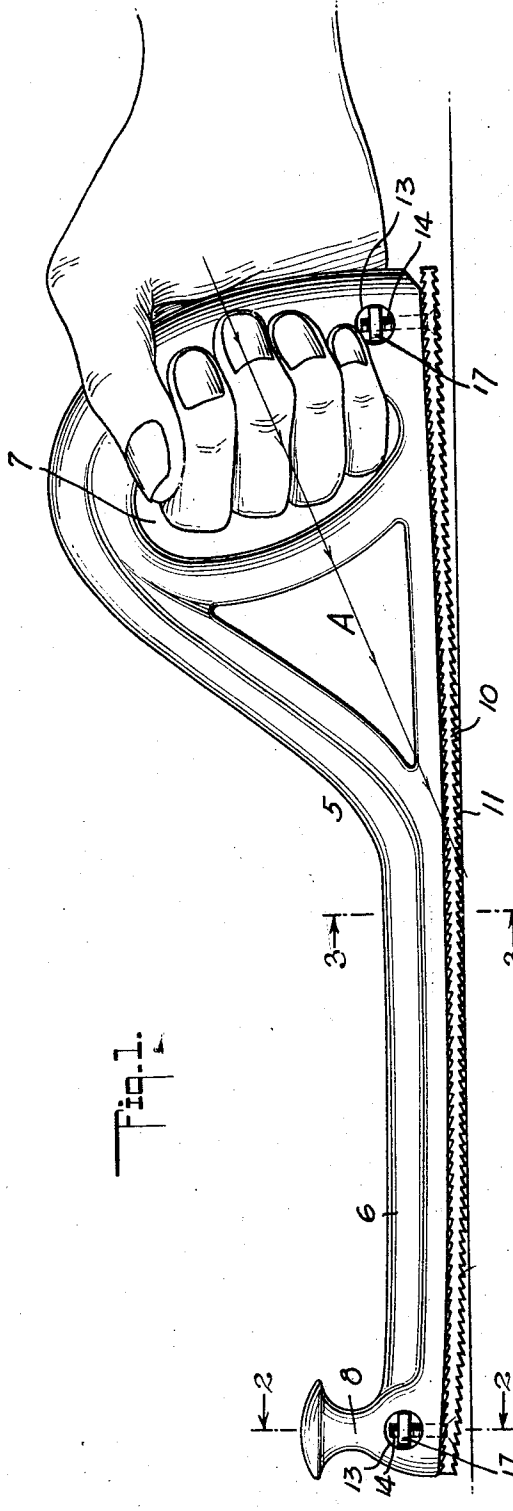


Fig. 1.

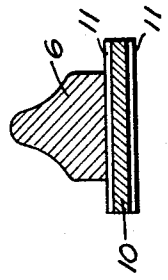


Fig. 3.

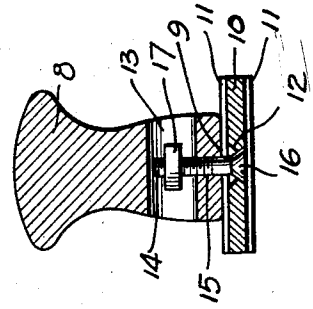


Fig. 2.

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UNITED STATES PATENT OFFICE.

HARRY HORTON CANTERBURY, OF WHITTIER, CALIFORNIA, ASSIGNOR, BY DIRECT AND MESNE ASSIGNMENTS, TO GEORGE G. GRIFFITH, OF MONROVIA, CALIFORNIA.

FILE HOLDER.

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This invention relates to file holders, and particularly to a device for securing a file in working position so that the full force of the operator can be distributed throughout the surface of the file with very little exertion but with materially beneficial results in the filing operation, and whereby the work of reducing or smoothing surfaces can be conducted with dispatch and thoroughness.

Another object of the invention is to provide a device of this character wherein the file may be operated over its work without possibility of gouging or otherwise injuring the work.

Another object of the invention is to provide a device of this character which may be rocked manually and moved over the work so as to induce evenness or uniformity in the cut or filing action, and whereby pressure may be applied equally to both ends of the file, enabling the device to be actuated with maximum efficiency.

I will describe only one form of file holder embodying my invention, and will then point out the novel features thereof in claims.

In the accompanying drawings,

Figure 1 is a view in side elevation of the device;

Figure 2 is a section on line 2—2 of Figure 1; and

Figure 3 is a section on line 3—3 of Figure 1.

In practice, I employ a stop or member 5 which may be cast, stamped or otherwise suitably formed from a single piece of material, so as to provide a longitudinally curved arm 6 and a substantially vertical handle 7, the latter located at one end of the arm, as illustrated. At the opposite end of the arm and formed as an integral part thereof is a manipulating or pressure knob 8, by means of which one hand of the operator may be used to apply force to the structure, while the other hand is employed to both manipulate the structure and at the same time apply force thereto.

As stated, the arm 6 is preferably curved longitudinally. The base of the arm is flat, as shown at 9, Figures 2 and 3. I do not mean that this of necessity must follow to a successful functioning of the device, and it shall be understood that in this respect deviations may be made so that the arm proper adapts itself to the form of the file employed.

Underlying the arm and detachably connected therewith is a file 10, the same having identical filing or working surfaces 11, so that when one of these surfaces is worn the file may be reversed and the other surface exposed for use. The file is formed of flexible metal, and at points near the ends thereof are apertures 12 which are substantially of double truncated form so as to provide portions in communication whose walls merge in respectively different directions. The purpose of this arrangement will present itself as the description goes forward.

At the ends of the arm 6 are transverse openings 13 and projecting into these openings are the upper ends or threaded shanks of screws 14. These screws extend upwardly in vertical openings 15 formed in the arm and at points beneath the arms these screws are provided with flat heads 16. In the openings 13 in co-action with the threaded shanks of the screws, are nuts 17 which are designed to regulate adjustments of the screws. The screws are adapted to be passed through the apertures 12 in the file 10, and when this is done the shanks of the screws are passed through the openings 15 and engaged with the nuts 17. The screws are now turned so as to elevate the ends of the file 10, as clearly illustrated in Figure 1, the nuts 17 being held against rotation by the walls of the openings 13. This flexes or convexes the under surface of the file and provides a medial portion which is correlated to the handle 7 so that a line of force indicated at A, Figure 1, will be applied with appropriate effect to the said medial portion.

Having described the details of construction of the device, the operation is manifestly obvious, but it shall be here stated that I have secured the file 10 to the arm 6 in a manner whereby the latter can be reciprocated over the work to be smoothed or reduced, and if desired, one hand of the operator may be engaged with the handle 7 and the other hand engaged with the knob 8, and incident to the curvature of the arm 6, the tool can be rocked during the operation of reciprocating it over its work, and in this instance the force applied to the effective surface of the file 10 will be equally

distributed throughout the file. When one surface of the file is worn, the file can be quickly and conveniently removed and its position reversed with respect to the arm 6, so as to expose its other surface.

Although I have herein shown and described only one form of file holder embodying my invention, it is to be understood that various changes and modifications may be made therein without departing from the spirit of the invention and the spirit and scope of the appended claims.

I claim as my invention:

1. A file holder comprising an arm having a flat longitudinally curved base, a handle at one end of the arm, a pressure knob at the other end of the arm, means for holding a file contiguous to the curved surface of the arm, said means comprising elevating screws carried by the arm at the ends thereof and adapted to engage with the respective ends of a file.

2. A file holder comprising an arm having a longitudinally convexed base surface, a handle at one end of the arm, a pressure knob at the other end of the arm, the handle and knob formed with transverse openings, the base of the arm provided with openings communicating with the transverse openings, and screws arranged in the openings for holding a file contiguous to the convexed surface while elevating the ends of the file at the ends of the arm.

3. A file holder comprising an arm having a longitudinally convexed base surface, a handle and pressure knob on the holder and provided with transverse openings, openings formed in the ends of the arms and communicating with the transverse openings, and means adjustable in the openings and associated with a file for elevating the ends of the file so that the latter is disposed contiguous to the convexed surface of the arm.

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