April 6, 1943. H. TUBBS 2,315,749

FILE

Filed Aug. 6, 1942

Fig 1

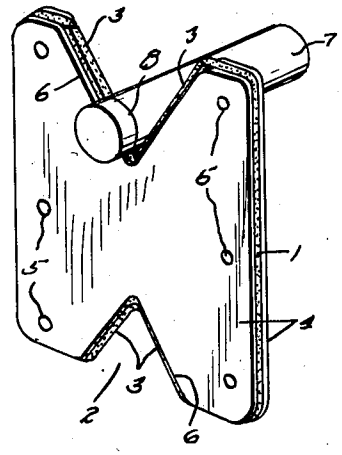


Fig 4

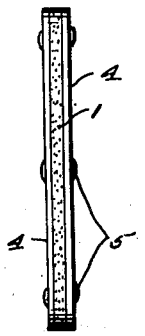


Fig 2

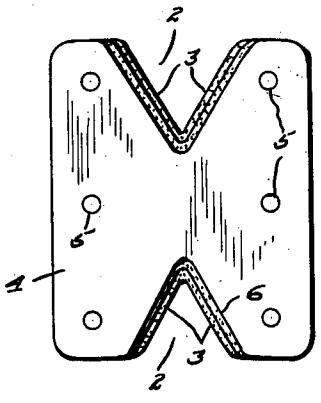


Fig 5

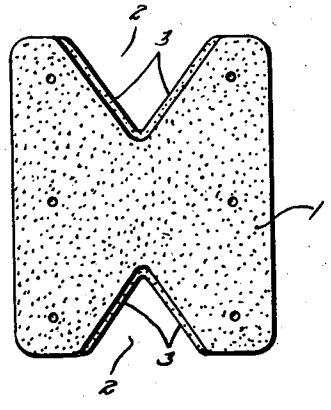
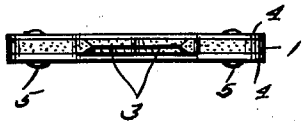


Fig 3



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Patented Apr. 6, 1943 2,315,749

UNITED STATES PATENT OFFICE

2,315,749

FILE

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Application August 6, 1942, Serial No. 453,880

4 Claims. (Cl. 51—204)

The present invention relates to new and useful improvements in files and has for its primary object to provide, in a manner as hereinafter set forth, a device comprising a novel construction and arrangement whereby different sizes of ampoules may be rapidly notched or cut circumferentially to facilitate the breaking thereof.

Other objects of the invention are to provide an ampoule notching or grooving tool of the aforementioned character which will be comparatively simple in construction, strong, durable, highly efficient and reliable in use, compact, and which may be manufactured at low cost.

All of the foregoing and still further objects and advantages of the invention will become apparent from a study of the following specification, taken in connection with the accompanying drawing wherein like characters of reference designate corresponding parts throughout the several views, and wherein:

Figure 1 is a perspective view of a tool constructed in accordance with the present invention, showing the device in use.

Figure 2 is a view in side elevation of the device.

Figure 3 is a plan view.

Figure 4 is a view in edge elevation.

Figure 5 is an elevational view of the abrasive element.

Referring now to the drawing in detail, it will be seen that the embodiment of the invention which has been illustrated comprises an abrasive element in the form of a substantially rectangular sheet 1 of rubberized carborundum or other suitable material. The abrasive sheet 1 has formed in its end portions substantially V-shaped notches or recesses 2 of different sizes. The walls of the notches 2 are tapered in a manner to provide cutting edges 3.

Metallic plates 4 are firmly secured on opposite sides of the abrasive sheet 1 through the medium of rivets 5. The metallic plates 4 have formed in their end portions substantially V-shaped notches 6 which are aligned with the notches 2. The notches 6 are larger than the corresponding notches 2 for exposing the cutting edges of the abrasive sheet 1.

In Figure 1 of the drawing, a conventional ampoule is shown at 7. When using the device, the ampoule 7 is engaged in the crotch of one of the notches 2 and spun or rotated on the cutting edges 3 of the abrasive sheet 1. Thus, the ampoule 7 is rapidly notched or grooved circumferentially as at 8 to facilitate breaking said ampoule. Of course, the rivets 5 pass through the abrasive sheet 1 for positively securing the same in position between the metallic plates 4.

It is believed that the many advantages of a file constructed in accordance with the present invention will be readily understood and although a preferred embodiment of the device is as illustrated and described, it is to be understood that changes in the details of construction may be resorted to which will fall within the scope of the invention as claimed.

Having described the invention, what is claimed as new is:

1. A file of the character described comprising an abrasive sheet having substantially V-shaped notches therein, and plates mounted on the opposite sides of the sheet and having substantially V-shaped notches therein aligned with the first-named notches, the aligned notches for the reception of an article to be filed.

2. A file of the character described comprising an abrasive sheet having substantially V-shaped notches therein for rotatably receiving an article to be filed, and plates mounted on the opposite sides of the abrasive sheet and having substantially V-shaped notches therein registering with the first-named notches, the walls of said first-named notches being tapered and projecting into the second-named notches.

3. A file comprising an abrasive sheet having a notch therein for rotatably receiving an article to be filed, plates mounted on opposite sides of the sheet and having notches therein aligned with the first-named notch, the second-named notches being larger than the first-named notch for exposing the walls of said first-named notch.

4. A file of the character described comprising a substantially rectangular abrasive sheet having substantially V-shaped notches of different sizes in its end portions, said notches for rotatably receiving different sizes of articles to be filed, the walls of the notches being tapered for providing cutting edges, metallic plates mounted on opposite sides of the abrasive sheet, and rivets securing the plates in position, said rivets passing through the abrasive sheet, said plates haivng substantially V-shaped notches therein aligned with the first-named notches but larger than said first-named notches for exposing the tapered walls thereof.

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