June 12, 1945. P. MATTON 2,377,953

ABRASIVE STICK HOLDER

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Fig. 1.

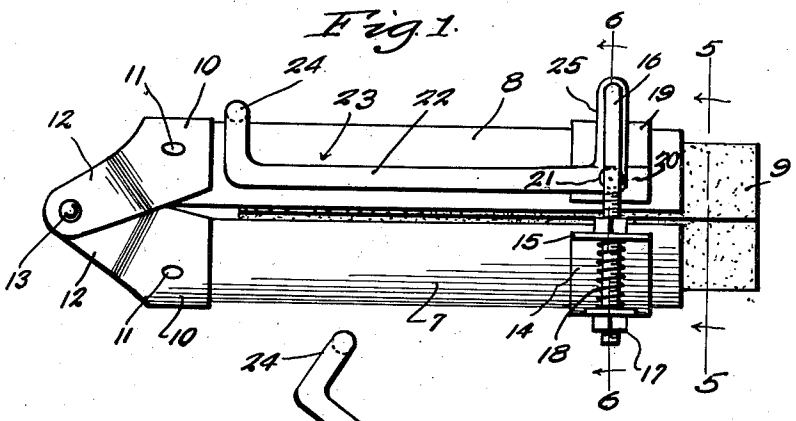


Fig. 2.

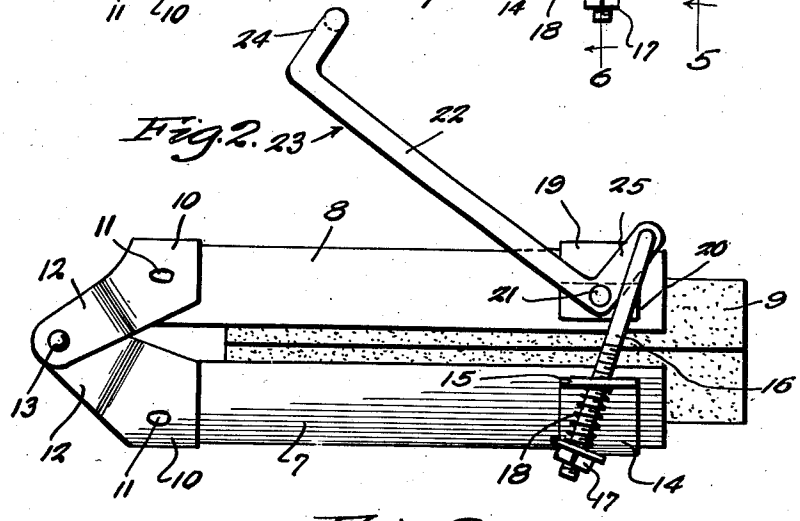
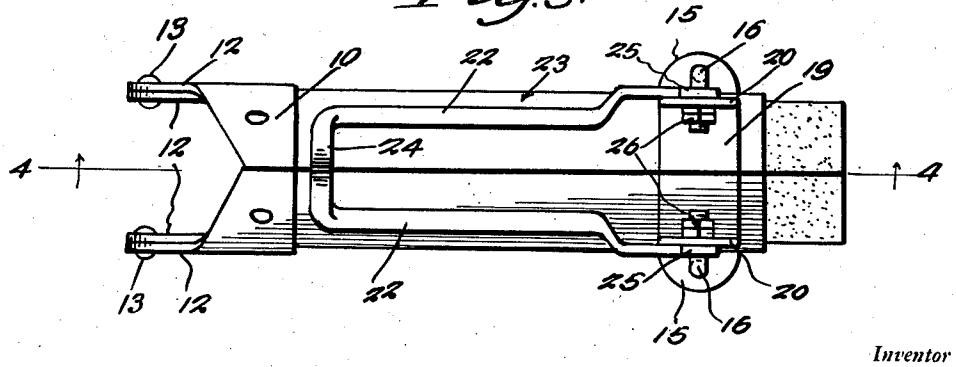


Fig. 3.



Inventor

Phillip Matton

By Clarence A. O'Brien and Harvey B. Jacobson

Attorneys

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Fig. 4.

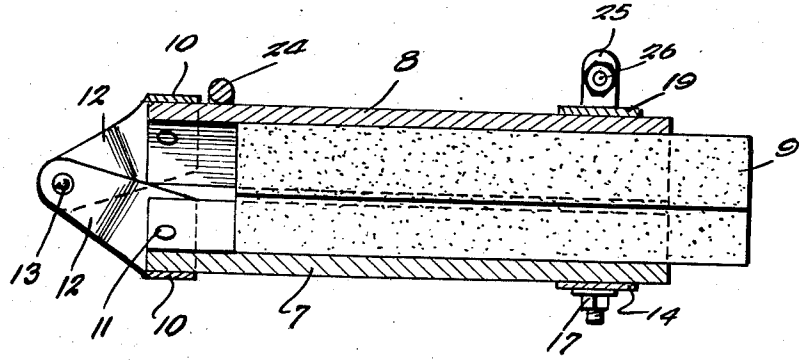


Fig. 5.

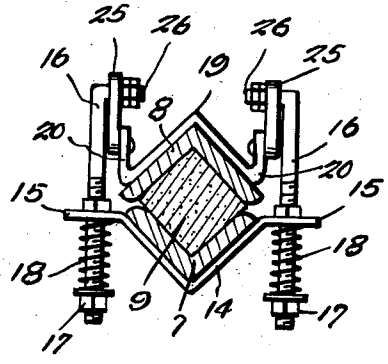
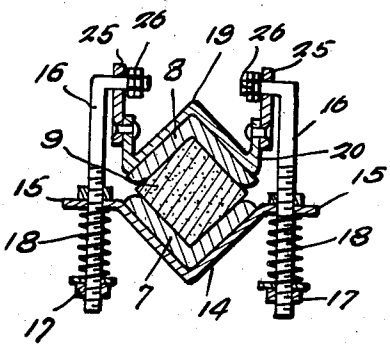


Fig. 6.



Inventor
Phillip Matton

By Clarence A. O'Brien and Harvey B. Jacobson
Attorneys

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ABRASIVE STICK HOLDER

Phillip Matton, Racine, Wis.

Application June 14, 1944, Serial No. 540,357

3 Claims. (Cl. 51—205)

This invention relates to certain new and useful improvements in holders for so-called "Carborundum" and abrasive sticks.

The purpose of the invention is to structurally and otherwise improve upon similarly constructed and functioning abrasive or equivalent article holders, this through the medium of a simple and expedient device which, it is believed, aptly fulfills the requirements of holders of the class above mentioned.

More specifically, I have evolved and produced a substantially fool-proof stick or similar article holder characterized by a pair of duplicate companion stick embracing and gripping members, these being hingedly connected with each other at one end and provided at their opposite ends with reliable, easy to use, binding and clamping means.

Other features and advantages will become more readily apparent from the following description and the accompanying illustrative drawings.

In the drawings, wherein like numerals are employed to designate like parts throughout the views:

Figure 1 is a side elevational view of a holder constructed in accordance with the structural principles of the instant invention, the article held being in place, clamped and ready for use.

Figure 2 is a view like Figure 1 with the binding and clamping means open.

Figure 3 is a top plan view of the assemblage seen in Figure 1.

Figure 4 is a central longitudinal sectional view taken on the plane of the line 4—4 of Figure 3.

Figures 5 and 6 are transverse sections on the planes of the lines 5—5 and 6—6, respectively, of Figure 1, looking in the direction of the arrows.

Referring now to the drawings by distinguishing reference numerals it will be seen that the holder is sectional, the main section 7 being in the form of duplicate opposed and parallel angle irons 7 and 8 of appropriate material and dimensions. These are arranged so as to adaptably receive and clamp the abrasive grinding stick 9 therebetween. Substantially V-shaped clips 10 are saddled over the left-hand ends of said clamping sections 7 and 8, said clips being securely riveted in place as at 11. The clips are provided with outwardly projecting ears 12 which converge and overlap. The overlapping end portions are pivotally or hingedly connected together as at 13. This allows the clamping sections to be opened and closed to facilitate insertion and removal of the carborundum stick.

A V-shaped strap-metal saddle clip 14 is permanently attached to the right-hand end of the stick clamping section 7 and this is provided with outstanding laterally directed lugs 15 apertured to accommodate the pressure applying bolts 16. The lower ends of the bolts extend through and beyond said lugs where they are provided with nuts 17 for accommodating washers, the washers serving as seats for the adjacent ends of the coiled springs 18. The springs surround the projecting end portions of the bolts between said washers and the lugs 15.

A complemental saddle-clip 19 is secured to the left-hand end of the clamping section 8 in alignment with the clip 14. The clip 19 is provided with up-bent flanges 20 to accommodate pivot pins 21 for the side reaches 22 of the clamping lever 23. The free swingable end portion of the lever is provided with a lateral V-shaped bend 24 functioning as a handle or finger-piece. The reach arms or limbs 22 of the lever 23 have their outer ends bent laterally to provide bellcranks 25 and the upper laterally directed ends of the bolts are hingedly connected to the terminals of said bellcranks as at 26.

The abrasive stick 9 is slipped in between the jaw sections 7 and 8 and they are spaced apart or open as shown in Figure 2. Then the clamping lever 23 is snapped down in place, that is, in closed position as seen in Figure 1. It follows that this action of the lever swings the canted spring-resisted bolts 16 from the inclined or angular positions seen in Figure 2 to the straightened positions seen in Figure 1. Therefore, the "Carborundum" stick is yieldingly clamped between the jaw members 7 and 8.

It is thought that persons skilled in the art to which the invention relates will be able to obtain a clear understanding of the invention after considering the description in connection with the drawings. Therefore, a more lengthy description is regarded as unnecessary.

Minor changes in the shape, size and arrangement of details coming within the field of invention claimed may be resorted to in actual practice, if desired.

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

1. An abrasive stick holder of the class described comprising a pair of elongated opposed parallel angle irons constituting stick embracing and clamping jaws, means hingedly connecting the jaws together at corresponding ends, a lever pivotally mounted on the opposite end of one of said jaws, said lever being provided with cranks,

bolts pivotally connected to the terminal ends of said cranks and constituting links, and means connecting said bolts with the adjacent end of the remaining jaw member.

2. An article holder of the class described comprising a pair of elongated duplicate jaw members V-shaped in cross-section, means hingedly connecting corresponding ends of said members together, a V-shaped saddle-clip secured to the free end of one of said jaw members and having outstanding apertured lugs, spring-pressed bolts shiftably mounted in said apertured lugs, a second V-shaped clip saddled upon and secured to the free end of the remaining jaw member and provided with upstanding flanges, a lever, said lever being of U-shaped form and having parallel limbs hingedly connected with said flanges, said limbs terminating in laterally directed cranks, and said bolts having hooked ends pivotally connected to the free end portions of said cranks.

3. An abrasive or equivalent article holder of the class described comprising a pair of alined and opposed jaw members of a cross sectional shape corresponding to the article to be inserted and clamped therebetween, said jaw members being hingedly connected to one another at corresponding ends, a clip saddled and secured to the free end of one of said jaw members and having outstanding lugs, spring equipped bolts adjustably mounted in the apertures of said lugs, a second clip saddled upon and secured to the free end of the remaining jaw member and provided with end flanges, a lever, said lever being of general U-shaped form and outline and embodying parallel limbs hingedly connected at their free end portions with said flanges, said limbs terminating in laterally directed crank portions, and said bolt having ends adjacent said crank portions pivotally connected thereto.

PHILLIP MATTON.