F. W. GRADY.

SAFETY DEVICE FOR TOOLS.

APPLICATION FILED NOV. 29, 1920.

1,433,814. Patented Oct. 31, 1922.

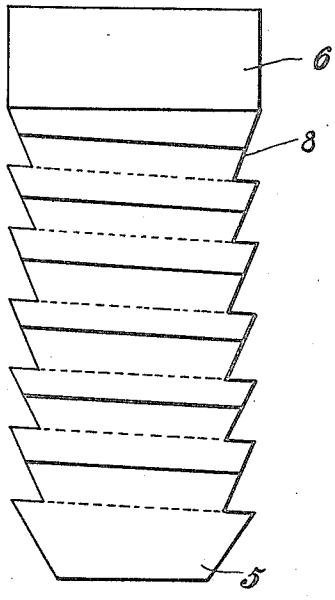


Fig. 1.

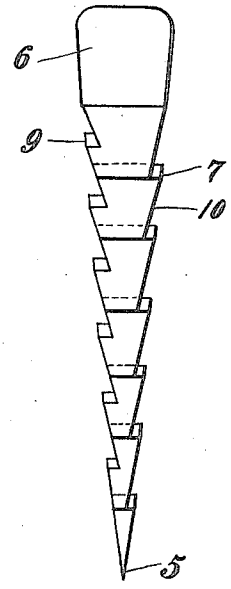


Fig. 2.

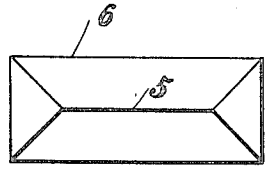


Fig. 3.

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Patented Oct. 31, 1922. 1,433,814

UNITED STATES PATENT OFFICE.

FRANK WILLIAM GRADY, OF NILES, CALIFORNIA.

SAFETY DEVICE FOR TOOLS.

Application filed November 29, 1920. Serial No. 427,087.

To all whom it may concern:

Be it known that I, FRANK W. GRADY, a subject of the King of England, residing at Niles, in the county of Alameda and State of California, have invented a new and useful Safety Device for Tools, of which the following is a specification.

This invention has reference to headed tools, it being the primary object of the invention to provide means to be inserted in one end of the handle thereof to spread that portion of the handle, causing the same to frictionally engage the inner walls of the head of the tool.

A further object of the invention is the provision of means of this character having a plurality of shoulders designed to restrict reverse movement thereof.

A still further object of the invention is to provide a device which may be driven into the handle portion of the usual head of the tool now in use.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed, may be made within the scope of what is claimed, without departing from the spirit of the invention.

Referring to the drawing:—

Figure 1 illustrates a side elevational view of a securing device constructed in accordance with the present invention.

Figure 2 illustrates an elevational view disclosing one edge of the securing device.

Figure 3 illustrates an end view of the device.

Referring to the drawing in detail, the device is shown as wedged shaped, the same being relatively long and having a knife-like end 5 adapted to split the handle in which the wedge is positioned, while the opposite end 6 of the wedge is formed into a head to receive the blow of a positioning tool.

Extending transversely of one side of the wedge are a plurality of inclined shoulders 7 that extend across the side edges of the wedge, where the body portion of the wedge is cut away as at 8.

The shoulders 7 extend throughout substantially the entire length of the wedge to provide gripping members along the entire surface of the wedge, restricting movement of the wedge.

On the opposite side of the wedge are formed a plurality of shoulders 9, which extend the entire width of the wedge, and as shown these shoulders 9 are disposed along the surface of the wedge at points between adjacent shoulders 7 thereby providing a double grip for the wedge to insure against movement thereof.

The walls between adjacent shoulders 7 and 9, taper towards the lower extremity of the wedge as at 10, thereby providing shoulders which will readily embed themselves within the handle portion of the tool.

In the use of the device, the pointed extremity of the wedge is positioned at one end of the handle, whereupon the same is driven into the handle splitting the same and wedging the split sections of the handle into close engagement with the walls of the openings of the head, the shoulders of the wedge embedding themselves in the material of the handle, to prevent the wedge from becoming displaced.

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

A tool handle wedge comprising a wedge-shaped body portion having cut out portions formed in the side faces thereof, the cut out portions in the side faces forming shoulders, the shoulders of one face lying in planes above the shoulders of the adjacent face, the front and rear faces of the body portion being formed with cut out portions providing shoulders, the shoulders of the front and rear faces being inclined towards one of the side faces, the shoulders on the front face being disposed in planes between the shoulders of the rear face, and said body portion being formed with a knife-like end.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

FRANK WILLIAM GRADY.

Witnesses:
F. W. SWIGART,
N. B. WILLIAMS.