(No Model.)

H. S. BUCKLAND.

TOOL CLAMPING DEVICE.

No. 526,293. Patented Sept. 18, 1894.

Fig. 1.

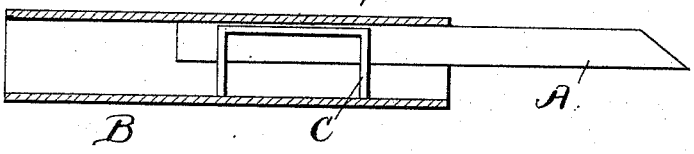


Fig. 2.

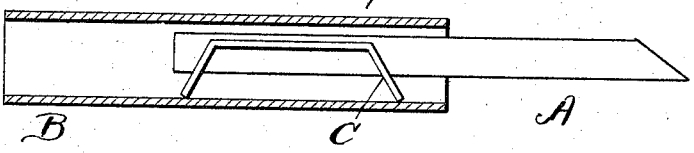


Fig. 3.

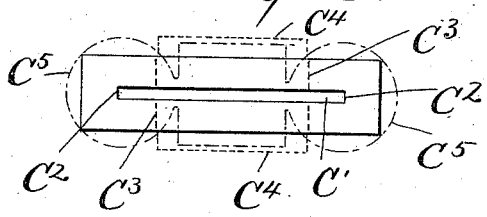


Fig. 4.

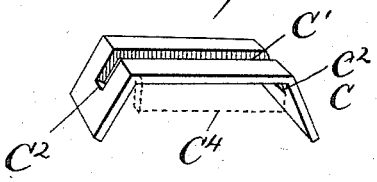
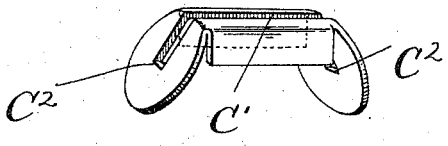


Fig. 5.



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UNITED STATES PATENT OFFICE.

HORACE S. BUCKLAND, OF FREMONT, OHIO.

TOOL-CLAMPING DEVICE.

SPECIFICATION forming part of Letters Patent No. 526,293, dated September 18, 1894.

Application filed June 26, 1894. Serial No. 515,755. (No model.)

To all whom it may concern:

Be it known that I, HORACE S. BUCKLAND, of Fremont, in the county of Sandusky and State of Ohio, have invented certain new and useful Improvements in Tool-Clamping Devices; 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 pertains to make and use the same.

My invention relates to improvements in clamping-devices for securing the working-member of a tool within a handle, ferrule or holder, the object being to provide a securing-device for the purpose indicated that is exceedingly simple in construction and consequently inexpensive, and that can be applied with great facility.

With this object in view, my invention consists in certain features of construction, and in combinations of parts, hereinafter described and pointed out in the claims.

In the accompanying drawings, Figure 1 is a central longitudinal section of the handle, ferrule or holder of a knife having the working-member of the knife-blade secured in place by my improved clamping-device. Fig. 2 is an elevation, partly in longitudinal section, showing the position of the clamping-device and knife-blade preparatory to securing the blade within the handle, ferrule or holder. Fig. 3 exhibits a blank suitable for the formation of my improved clamping-device. Fig. 4 is a perspective view of the clamping-device. Fig. 5 is a perspective view of a clamping-device embodying my invention, exhibiting a construction somewhat modified from that shown in Fig. 4.

Referring to the drawings, A designates a knife-blade and B a handle, ferrule or holder for said blade and against the internal surface whereof the blade is to be clamped or secured, and C represents my improved clamping-device that straddles the shank of the knife-blade and clamps the same against the internal surface of the handle, ferrule or holder.

A blank suitable for the formation of a clamping-device embodying my invention is exhibited in Fig. 3, and is shown to consist of an oblong metallic blade holder slotted longitudinally as at C′. Said slot does not extend from end to end of the blank, and hence, has end-walls C^2 C^2. The blank, in order to form the clamping-device, is bent laterally on dotted lines C^3, shown in Fig. 3, that is, the blank is bent laterally at a suitable point between each end of the slot in the blank and the central portion of the blank, both ends of the blank being bent in the same direction, as shown in Fig. 4, and not beyond an obtuse angle to the central portion of the blank.

In securing the working-member of a tool, such, for instance, as the blade of a knife, as the case illustrated, within the handle, ferrule or holder, the clamping-device and working-member of the tool are introduced into the handle or holder, as shown in Fig. 2, wherein the knife-blade rests upon the end-walls C^2 C^2 of slot C′, and thereupon, by means of any tools or devices suitable for the purpose, the end-members of the clamping-device are pressed toward each other so as to elevate the knife-blade or working-member of the tool and clamp the same against the internal surface of the handle or holder, as shown in Fig. 1. If desirable, the central portion of the blank may be enlarged in width, as indicated by dotted lines C^4 in Fig. 3, and said enlargements of the central portion thereupon bent laterally in the same direction in which the ends of the blank are bent, as shown in dotted lines Fig. 4, so as to form stops to limit the movement of the end-members toward each other in the operation of securing the knife-blade or working-member of the tool within the handle, ferrule or holder; also, if the handle or holder of the tool is cylindrical the end-portions of the blank may be circular, as indicated by dotted lines C^5 in Fig. 3, to conform to the internal surface of the handle or holder.

Fig. 5 exhibits a clamping-device whose end or clamping-members are circular and whose central portion is provided with stops to limit the movement of the clamping or securing-members toward each other in the operation of securing the knife-blade or working-member of a tool within the handle or holder.

Having thus described the construction and operation of the clamping device embodying my invention, what I claim is—

1. A clamping-device consisting of a single piece of metal provided with a longitudinal

slot C′ having end-walls C^2 C^2, said metallic piece being bent laterally in the same direction at a suitable point between each end of the slot and the central portion of the piece, substantially as and for the purpose set forth.

2. The combination with a knife-blade or working-member of a tool and the handle, ferrule or holder for receiving said member, of a clamping-device consisting of a single metallic piece slotted, as at C′, to receive the working-member of the tool, and bent to clamp said member against the internal surface of the handle or holder, substantially as shown, for the purpose specified.

In testimony whereof I sign this specification, in the presence of two witnesses, this 21st day of June, 1894.

HORACE S. BUCKLAND.

Witnesses:
JAKE MILLER,
JAMES H. FOWLER.