(No Model.)

H. S. BUCKLAND.

CLAMPING OR SECURING DEVICE FOR KNIVES.

No. 526,292. Patented Sept. 18, 1894.

Fig. 1.

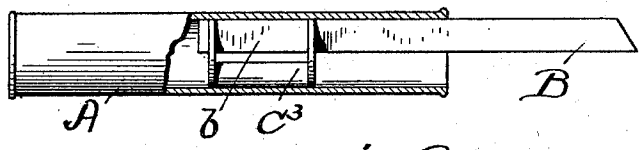


Fig. 2.

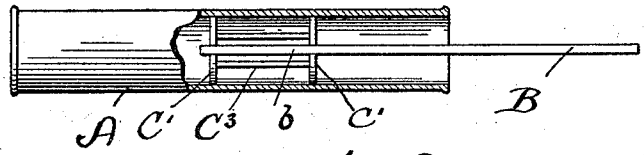


Fig. 3.

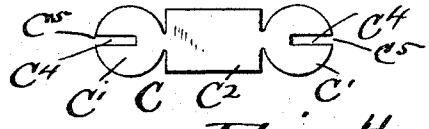


Fig. 4.

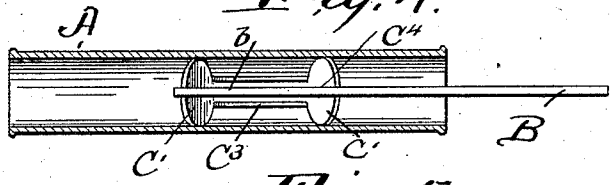


Fig. 5.

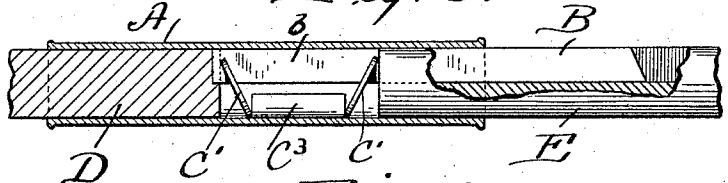
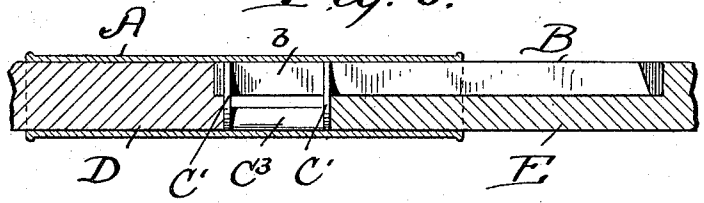


Fig. 6.



Witnesses:
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UNITED STATES PATENT OFFICE.

HORACE S. BUCKLAND, OF FREMONT, OHIO.

CLAMPING OR SECURING DEVICE FOR KNIVES.

SPECIFICATION forming part of Letters Patent No. 526,292, dated September 18, 1894.

Application filed April 9, 1894. Serial No. 506,889. (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 Clamping or Securing Devices for Knives; 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 a knife-blade or working-member of a tool within a chambered handle, ferrule, shell or holder, the object being to provide means for the purpose indicated that are exceedingly simple in construction and consequently comparatively inexpensive; that can be easily applied, and whereby the blade is so firmly held within the handle, ferrule or holder that it is not liable to become displaced or loose by use.

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 side elevation showing my improved means for securing a knife-blade within its handle or receiving-ferrule or holder, the latter being shown partly in central longitudinal section. Fig. 2 is a top view relative to Fig. 1, partly in central longitudinal section. Fig. 3 is a plan of a blank employed in the formation of the clamping-device used to secure the knife-blade within the holder, handle or receiver. Fig. 4 is a side elevation, partly in section, showing the manner of assembling the parts. Figs. 5 and 6 are side elevations, partly in section, illustrating a suitable manner of securing the parts together.

Referring to the drawings, A designates a chambered handle, ferrule, or receiving-shell or holder in which is introduced and suitably secured the shank *b* of a working tool, such, for instance, as a cutting-blade, B. Blade B is shown suitably clamped against the interior surface of the handle, shell, ferrule or holder A, and the clamping-device employed for the purpose of securing member B in place is preferably of the following construction.

The clamping-device is shown to consist of a single piece, preferably of sheet metal, and the blank C suitable for the formation of the clamping-device is shown in Fig. 3, the same consisting preferably of three members C′ C′ and C^2 arranged in line, as shown, the two end-members C′ C′ being substantially the same in construction and adapted, when bent laterally as hereinafter described, to fit the handle, shell, ferrule or holder A internally. The blank is bent into the shape shown in Figs. 4 and 5; that is, the central member or web C^2 of the blank, at two points located a suitable interval apart, is bent laterally, as at C^3, in the same direction on lines extending longitudinally of the blank, and the end-members C′ C′, at the junction of said members with the central member or connecting web, are bent laterally in the same direction so as to be capable of being subsequently folded or pressed against the ends of the laterally-bent portions of web or member C^2. The end-members C′ C′ of the blank are also slotted laterally, as at C^4, with the slots extending from the central portion to the adjacent end of the blank and open at their outer ends, as at C^5. (See Fig. 3.)

The blank having been formed and bent into the shape hereinbefore described, the shank of the cutting-blade or working-tool and the bent blank are introduced into the handle, shell, ferrule or holder A to which the blade or working-tool is to be secured with the shank of said tool engaging the lateral slots in the end-members of the blank, as shown in Figs. 4 and 5, and the end-members are thereupon, by means of suitable devices, pressed laterally against the stop-forming-members C^3 formed upon the central member or web of the blank or clamping-device, thereby completing the clamping-device and bringing the end-members of the clamping-device into a vertical position, and causing the shank of the cutting-blade or working-tool to be pressed or clamped outwardly against the interior surface of the handle, ferrule or receiving-shell or holder, thereby causing the parts to be securely held together.

I would remark that the devices employed for effecting the inward pressure upon the end or clamping-members of the clamping-device consists, preferably of a plug, D, inserted into the end of the handle, ferrule or receiving-shell opposite to the location of the

cutting-blade or working-member of the tool into engagement with the adjacent end-member of the clamping-device, as shown in Fig. 5, and thereupon by means of a plunger E introduced into the opposite end of the handle, ferrule or receiving-shell and brought into engagement with the other end-member of the clamping-device, forcing the clamping-device endwise against the plug until the clamping-members of the clamping-device have been brought into engagement with the wings or stops formed upon the central member or web of the clamping-device.

What I claim is—

1. A clamping-device for securing a knife-blade or working-member of a tool into a hollow or chambered handle, ferrule or shell, consisting of two clamping-members located a suitable interval apart, said clamping-members straddling the shank of the knife-blade or member to be secured and clamping the same against the interior surface of the handle, ferrule or shell, substantially as set forth.

2. A clamping-device, for securing a knife-blade or working-member of a tool into a hollow or chambered handle, ferrule or shell consisting of two members located a suitable interval apart and adapted to fit the handle, ferrule or shell internally, said members being slotted to straddle the shank of the knife-blade or the member to be secured and clamp the same against the interior surface of the handle, ferrule or shell, substantially as set forth.

3. A clamping-device for securing a knife-blade or working-member of a tool within a handle, ferrule or holder, consisting of two clamping-members located a suitable interval apart and slotted or cut to receive the blade or working-member of the tool, and suitable means for holding said securing-members apart, substantially as set forth.

4. A clamping-device for securing a knife-blade or working-member of a tool within a handle, ferrule or holder, consisting of two clamping-members located a suitable interval apart, said members straddling or embracing the blade or working-member of the tool and securing the same within the handle, ferrule or holder, said securing-members being connected by a web and the latter being bent to be engaged by the opposing sides of the securing-members, substantially as and for the purpose set forth.

In testimony whereof I sign this specification, in the presence of two witnesses, this 14th day of February, 1894.

HORACE S. BUCKLAND.

Witnesses:
C. H. DORER,
WARD HOOVER.