

(No Model.)

T. WILLIAMS.

KNIFE HONE.

No. 281,744.

Patented July 24, 1883.

Fig. 1.

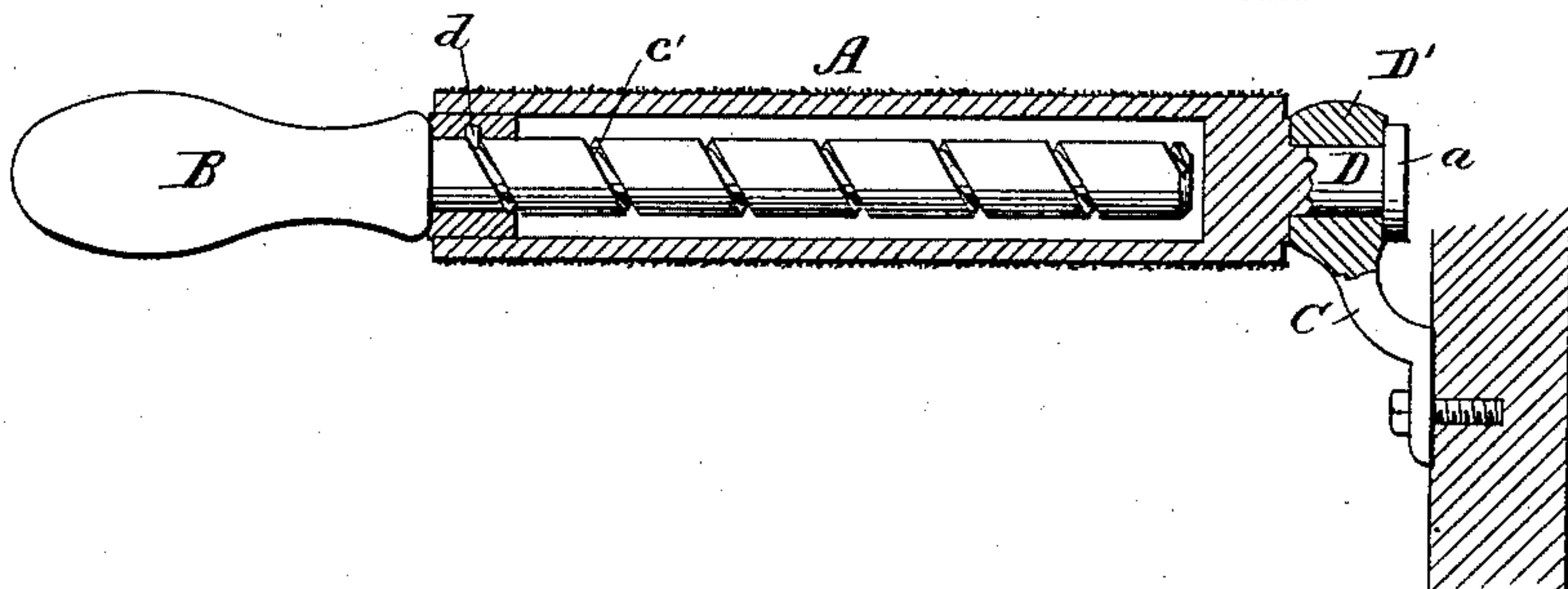


Fig. 2.

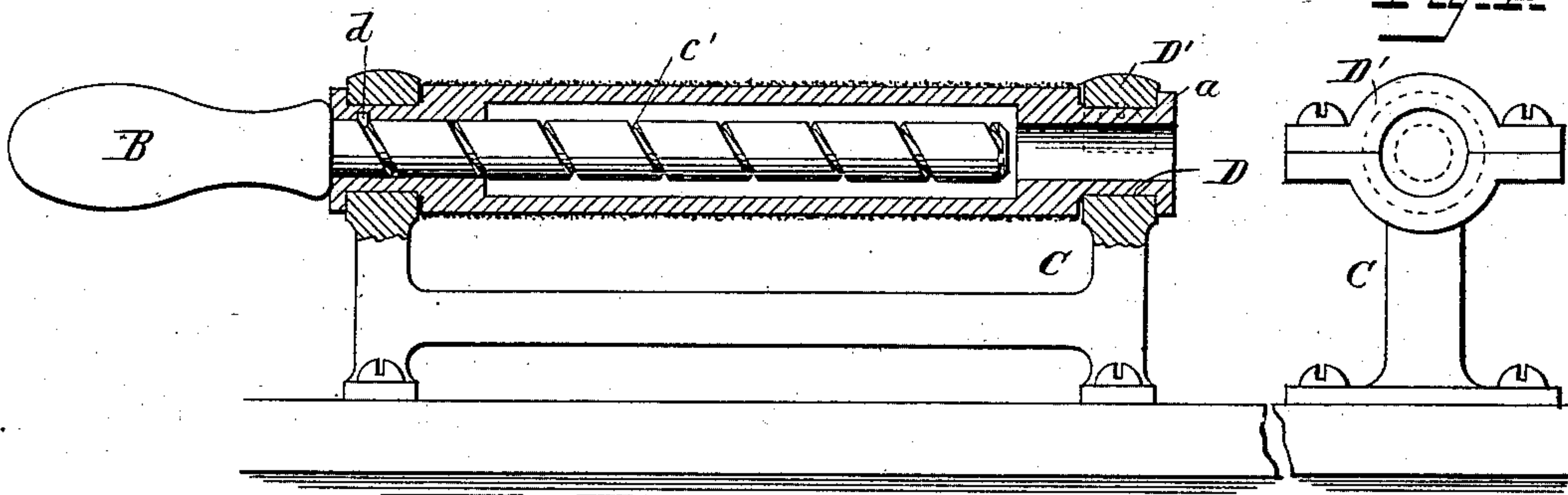


Fig. 4.

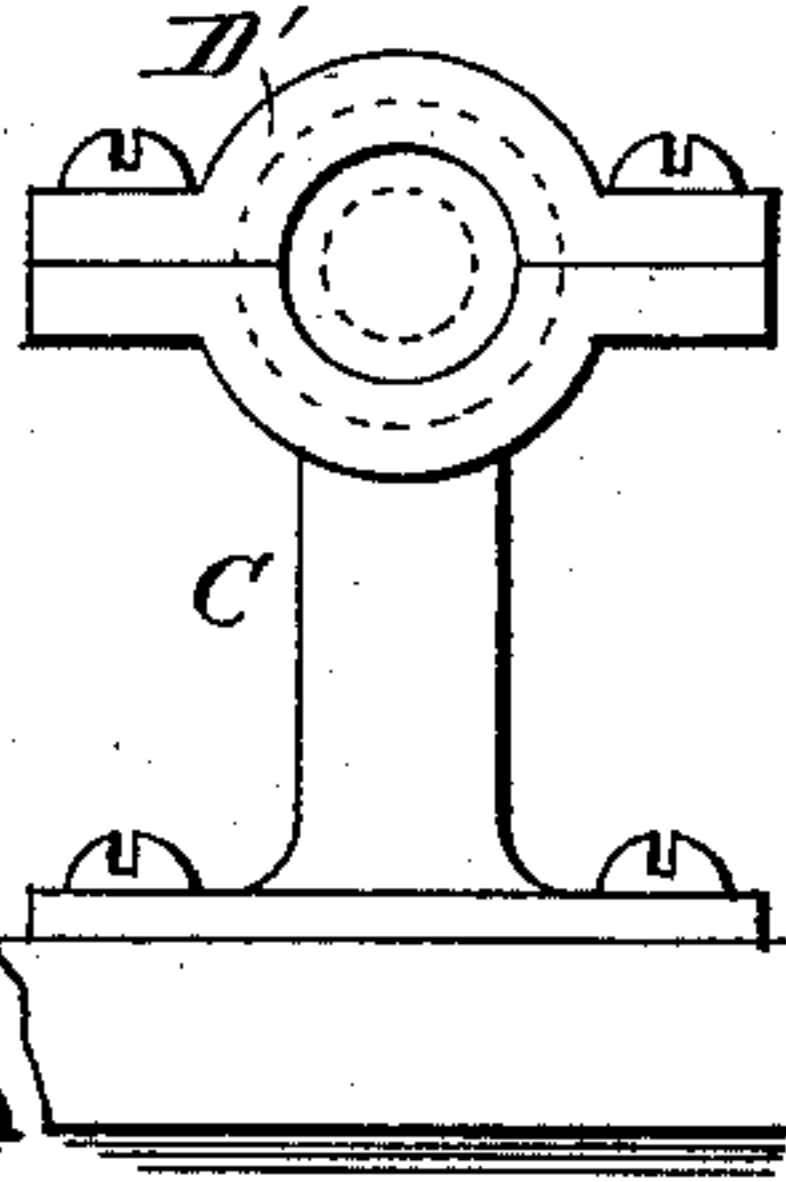
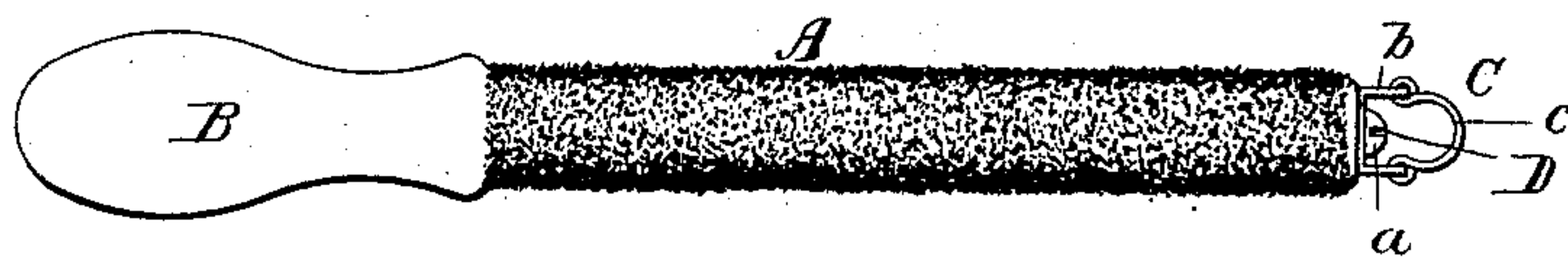


Fig. 3.



Attest:

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KNIFE-HONE.

SPECIFICATION forming part of Letters Patent No. 281,744, dated July 24, 1883.

Application filed April 11, 1883. (No model.)

To all whom it may concern:

Be it known that I, THOMAS WILLIAMS, of Woonsocket, Providence county, State of Rhode Island, have invented certain Improvements in Hones for Sharpening Knives, of which the following is a specification.

My invention relates to hones for sharpening knife and other blades, and has for its object the production of a hone adapted to revolve while being used, so as to change or shift the abrasive surface; and it consists in the construction and the combination of parts hereinafter particularly described, and then sought to be specifically defined by the claims.

In the drawings, Figure 1 is a sectional elevation of the sharpener; Fig. 2, a similar view of a modification; Fig. 3, a side view of another modification, and Fig. 4 is an end view of Fig. 2.

In the accompanying drawings, the letter A indicates the hone proper, consisting of a cylinder having an emery surface and a handle, B, and connected to a support, C, which may be a bracket adapted to be bolted to a vertical base, as shown in Fig. 1, or to a horizontal base, as shown in Fig. 2, or to be suspended by a loop (shown in Fig. 3) which can be detachably or permanently connected with a suitable base. The hone is connected to its support, so as to swivel or turn therein. In Figs. 1 and 2 the connection is by a stud or pin, D, projecting from the end of the arm through the support, and provided with a head or cap, *a*, which may be screwed thereon, and prevents the two parts from becoming separated from each other. The stud and button is shown in Fig. 3 as a headed screw or nail extending through the loop-support C into the hone, so as to be readily taken out of the same to permit the bracket and hone to be disconnected from each other. In Fig. 1 the hone is swiveled in a single bracket, while in Fig. 2 it is swiveled in two brackets; but the operation is substantially the same. The latter construction may for some purposes be preferable, because it is stronger, and perhaps

steadier, than the other. In both forms, however, the hone may be removed or disconnected from its supporting-bracket by removing the cap D, which is held by screws to the lower section of the bracket. In the construction shown in Figs. 1 and 2 the hone is hollow, and the handle, which passes some distance through the hone, is formed with a spiral thread or groove, *c*, to which is adapted a pin, *d*, projecting from the inside of the hone, so that when the handle is drawn out the hone is revolved in one direction, and when pushed inward the hone is revolved in the other direction.

By constructing a hone as described it will be held fast without danger of slipping from its support while being used, and at the same time will present, as often as the operator desires, a new abrasive surface to the blade, so that the wear will not be in one place, and the advantages of a constantly changing or shifting surface will be obtained.

Having described my invention, what I claim is—

1. The combination of a hone, a bracket to which the hone is swiveled at its end, and a handle capable of longitudinal movement, the handle and hone being relatively constructed to revolve the hone when the handle is moved longitudinally, substantially as and for the purpose set forth.

2. The combination of a hollow hone provided with an inwardly-projecting pin, a bracket to which the hone is swiveled at the end, and a handle having a spiral groove and fitting within the hone, the pin being adapted to the groove, substantially as and for the purpose set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

THOMAS WILLIAMS.

Witnesses:

PATRICK MASTERSON,
SAML. P. COOK.