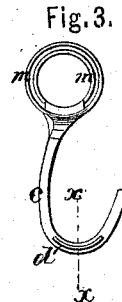
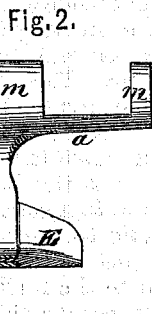
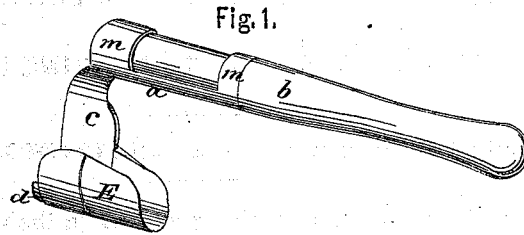


N. B. CLARKSON.

Improvement in Turpentine-Hacks.

No. 129,933.

Patented July 30, 1872.



WITNESSES.

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# UNITED STATES PATENT OFFICE.

N. BOWEN CLARKSON, OF GOURDIN'S DEPOT, ASSIGNOR TO HIMSELF AND  
S. S. FRASER, OF GEORGETOWN, SOUTH CAROLINA.

## IMPROVEMENT IN TURPENTINE-HACKS.

Specification forming part of Letters Patent No. 129,933, dated July 30, 1872.

Specification of an Improved Turpentine-Hack, invented by N. BOWEN CLARKSON, of Gourdin's Depot, in the county of Williamsburg, State of South Carolina.

The invention consists in fitting the knife in the stock so as to be readily attached thereto and removable therefrom for grinding, repair, or the substitution of another knife; also, in the mode of forming the stock.

In the drawing, Figure 1 is a perspective view of the tool. Fig. 2 is a view of the tool destitute of the handle, a section being made on the line *x x*, Fig. 3. Fig. 3 is a view of the stock without the handle, and showing the curved slot in which the tang of the knife slips.

*a* is the stock, having one or two ferrules, *m m*, to receive the handle *b*, which is secured therein by driving through in the manner of a mattock, or by wedging the end in the larger ferrule. The sleeve portion of the stock is preferably made long so as to give a firm bearing for the handle therein. *c* is an arm of the stock, having a bent form, as clearly seen in Fig. 3, and a slot, in which the tang *d* of the knife *E* is slipped. A set-screw, *g*, fastens the knife in position. The knife has a scoop-shaped edge, and is used for making incisions in pine trees to allow the turpentine to exude. This is technically called hacking, and may be done by an ax, but the hack is better.

My improvement specially consists in making the blade detachable and adjustable, so that it may be more easily made, sharpened, tempered, repaired, and replaced.

A man who breaks the ordinary hack while

at work in the woods, at a distance from home, has no means of repairing damages; but one with my improved tool may carry several additional blades with but little inconvenience, and may thus reinstate his hack in effective condition. The blade, being forged, dressed, tempered, and sharpened by itself, may be made thinner and of superior stuff.

I do not desire to confine myself to this particular mode of securing the blade to the stock.

The stock or body of the hack has rings or eyes, or may have a tubular sleeve for the handle. The usual mode of fixing the hack to the handle is to give a long tang to the stock, lay it along a groove in the handle, and then clinch it fast by a ring in the same manner that the heel-ring fastens the heel of a scythe to a snath. My mode of securing the handle to the stock is more secure than the one just stated, and saves the annoyance incident to the rattling of the hack on the handle after using awhile.

### Claims.

I claim as my invention—

1. The hack having a removable blade, for the purpose described.
2. The arrangement of the stock *a c* with ferrules, one or more, for receiving the handle, substantially as shown and described.

N. BOWEN CLARKSON.

Witnesses:

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