

(No Model.)

H. S. HANSTINE.
ADJUSTING TOOL HOLDER.

No. 571,900.

Patented Nov. 24, 1896.

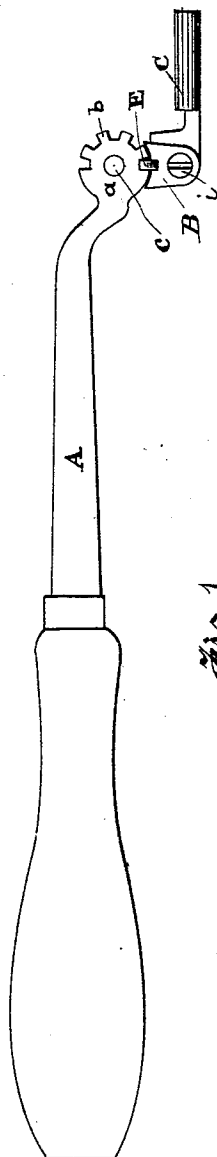


Fig. 1

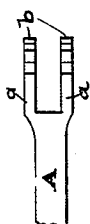


Fig. 2

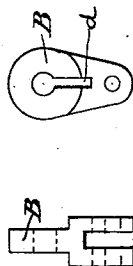


Fig. 3



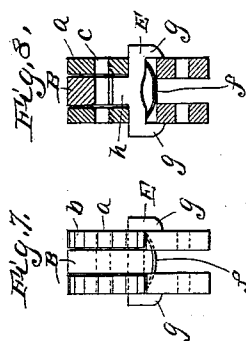
Fig. 4



Fig. 5



Fig. 6



Witnesses
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UNITED STATES PATENT OFFICE.

HARRY S. HANSTINE, OF PITTSBURG, PENNSYLVANIA, ASSIGNOR OF ONE-HALF TO JAMES F. THOMPSON, OF SAME PLACE.

ADJUSTING TOOL-HOLDER.

SPECIFICATION forming part of Letters Patent No. 571,900, dated November 24, 1896.

Application filed November 29, 1895. Serial No. 570,417. (No model.)

To all whom it may concern:

Be it known that I, HARRY S. HANSTINE, a citizen of the United States, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented or discovered new and useful Improvements in Adjustable Handles for Gouges and Chisels, of which the following is a specification.

In the accompanying drawings, which make part of this specification, Figure 1 is a side view of the handle, tool-holder, and gouge. Fig. 2 is a broken plan of the forward end of the handle. Fig. 3 is an edge view of pawl and spring and a top and under plan view of pawl. Fig. 4 is an edge, face, and plan view of the tool-holder; Fig. 5, an edge and plan view of the tool; Fig. 6, an end view of the tool; Fig. 7, an end view of the tool-holder, ratchet-teeth, and pawl with the tool removed, and Fig. 8 a vertical section through same.

My invention, generally stated, relates to improvements in adjustable handles for chisels or gouges.

In the accompanying drawings, A is the handle, which at its forward end is forked. Each of the tines *a a* has ratchet-teeth *b b* thereon and are perforated to receive a shaft *c*, on which turns the tool-holder B. Below its pivotal point tool-holder B is slotted at *d* to receive a pawl E, which is normally pressed against ratchet-teeth *b b* by a spring *f*, the pawl being provided with two lugs *g g*, which hold the spring in place and also prevent the lateral displacement of the pawl. Spur *h* on the pawl is adapted to fit into the recess between the tines *a a*.

C is the gouge, secured by screw *i* to the tool-holders B.

It is now apparent that by pressing the pawl against spring *f* the pawl E will be released from engagement with the ratchet-teeth and the gouge or other tool can be rotated around to any desired angle, and when the pawl is released the tool-holder will be reset firmly by the spring pushing the pawl into engagement again with the ratchet-teeth, to which it is opposite.

The wood-carver and wood-worker now re-

quires a very great variety of chisels and gouges adapted to the varying contour of the work wherein he is engaged. His set of chisels and gouges must be adapted to the varying angles of the wood upon which he is engaged, and whenever the angle varies he must lay aside his tool and select another appropriate one. This fact necessitates an expensive and elaborate collection of tools. My invention, however, takes the place in one tool of all straight chisels or gouges and also of all bent chisels or gouges, where otherwise a separate tool would be required for each particular piece of work. At the same time I am able to reach down into recesses and all points below the surface. In making core-boxes and in pattern-making generally and in working on moldings, fillets, &c., this is a feature of great importance.

Having described my invention, I claim—

1. The combination of a handle for a wood-working end-cutting tool, forked at its forward end and provided on its tines with ratchet-teeth; an independent link pivotally adjusted between said tines; a pawl contained in said link and normally adapted to engage the said ratchet-teeth and means for detachably connecting a series of wood-cutting tools to the said link.

2. The combination of a handle for a wood-working end-cutting tool, forked at its forward end and provided on its tines with ratchet-teeth; an independent link pivotally adjusted between said tines; a spring-actuated pawl working in a slot in said link, said pawl being provided with a spur to engage said ratchet-teeth and with lugs at its ends to retain the spring and prevent its own lateral displacement, and means for detachably connecting a series of wood-cutting tools to the said link.

In testimony whereof I have hereunto set my hand this 23d day of November, A. D. 1895.

HARRY S. HANSTINE.

Witnesses:

WM. L. PIERCE,
MARSHALL H. RENO.