J. L. DEVOL.

Improvement in Tools for Cutting Splints.

No. 127,319. Patented May 28, 1872.

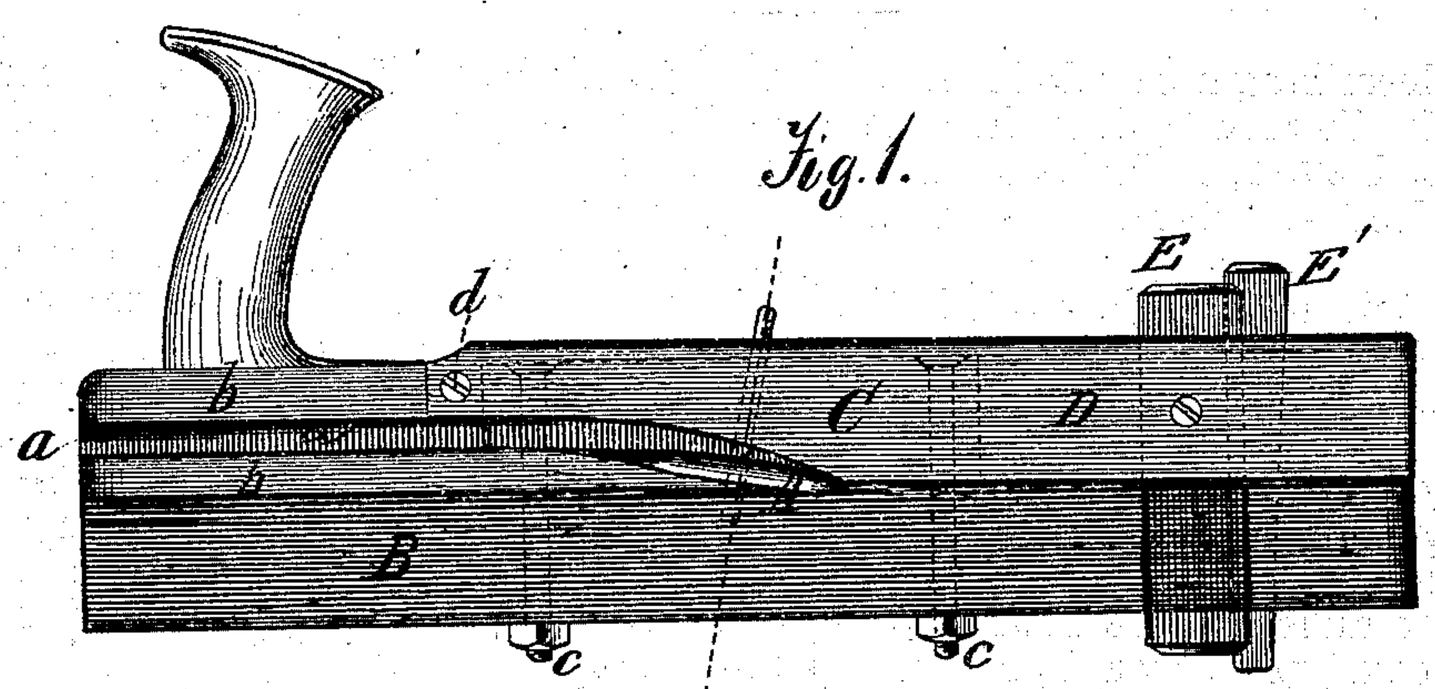


Fig. 1.

Fig. 2.

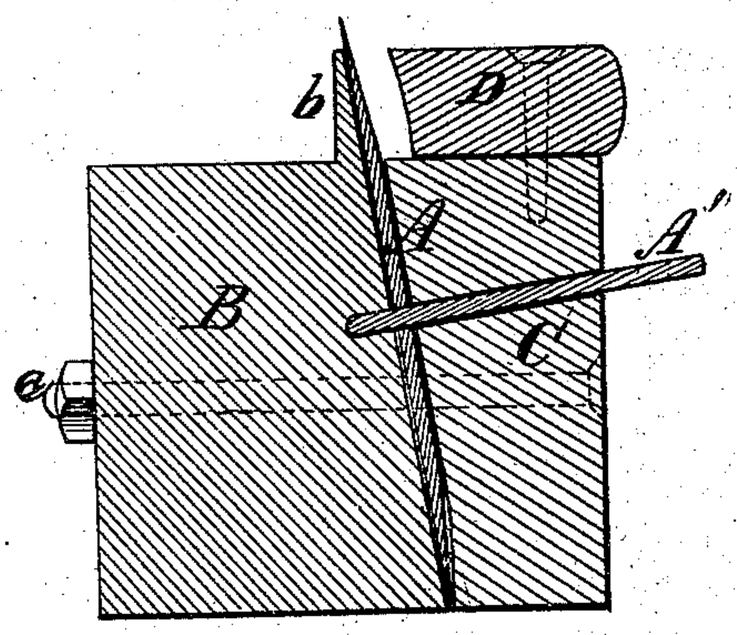
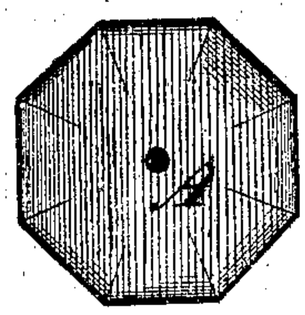


Fig 3.



Witnesses.
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127,319

UNITED STATES PATENT OFFICE.

JONATHAN L. DEVOL, OF PARKERSBURG, WEST VIRGINIA.

IMPROVEMENT IN TOOLS FOR CUTTING SPLINTS.

Specification forming part of Letters Patent No. 127,319, dated May 28, 1872.

Specification describing a certain Improvement in Tools for Cutting Splints, invented by JONATHAN L. DEVOL, of Parkersburg, in the county of Wood and State of West Virginia.

The nature of this invention consists in the employment of a swiveling adjustable guide for regulating the thickness of the splints cut or shaved off by a stationary bit or knife; and also in the use of a many-sided knife or bit capable of being turned on a spindle for the purpose of presenting another cutting-edge after one has been dulled by use, but held stationary when once adjusted by a clamping device.

Figure 1 is a front elevation. Fig. 2 is a transverse section. Fig. 3 is a view of the bit or knife.

The same letters of reference are used in all the figures in the designation of identical parts.

The knife or bit A is mounted upon the spindle A′ in an inclined position in the stock B of the tool, about midway of its length. On the side where the bit projects the stock is constructed with two permanent rails, *b* and *b′*, forming a way, *a*, in rear of the bit, which lies in part above the rail *b*, which is beveled at this point, terminating in a sharp edge, as clearly shown in Fig. 1. The bit is many-sided and can be turned on its spindle to bring either one of its cutting-edges to the front, but while in operation it is held stationary by means of a friction-block, C, which is placed over the projecting end of the spindle A′, in a recess cut in the stock, and bears against the face of bit with a force adequate to prevent its turning. The friction-block is tightened or loosened by suitable bolts and nuts *c c*. The bit is so arranged in the stock that its front edge stands slightly below the lower horizontal surface of the rail *b*. D refers to the adjustable guide or gauge, by which the thickness of the splints to be cut by the tool is regulated. It is arranged above the bit to turn upon a pivot, *d*, constructed with parallel sides at the part which lies in front of the bit, and cut away at the lower edge in rear of the bit to form a curved way or groove above the same coinciding with and forming a continuation of the way *a* for the discharge of the cut splints. This guide or gauge is pivoted near its outer end to a slide, E, which is arranged in a transverse seat in the stock, and is capable of being slid back and forth therein. By adjusting this slide the lower straight edge of the gauge-bar may be set any required distance above the front cutting-edge of the bit, and thus the thickness of the splints be readily regulated. The slide projects a little from the stock at each end, and is held in position when properly adjusted by means of a wedge or gib, E′.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination of the stationary bit A and the adjustable guide or gauge D, when the latter is cut away opposite to the face of the bit, forming a way in connection therewith, and the groove *a* in the stock for the discharge of the cut splints, and is pivoted at its forward end to the slide E, which is adjustably arranged in a transverse seat in the stock and secured by the gib E′, substantially as specified.

2. The combination of the many-sided bit A, capable of turning on its spindle, and the friction-block C for holding the bit fixed, substantially as set forth.

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

J. L. DEVOL.

Witnesses:

B. EDW. J. EILS,

A. RUPPERT.