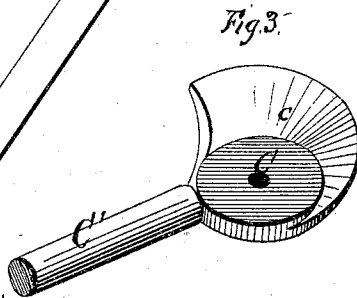
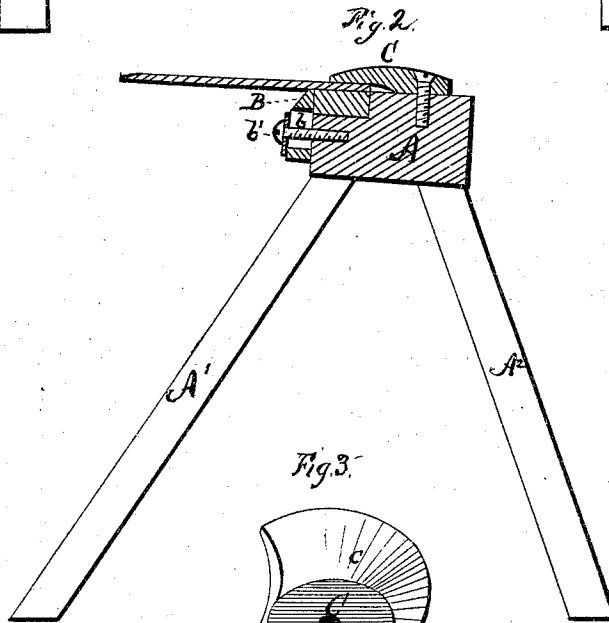
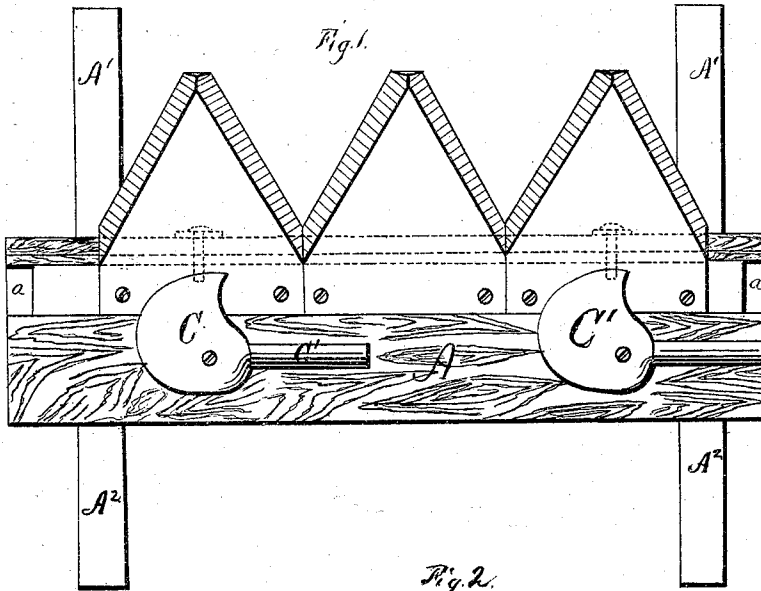


W. H. DANIELS.

Devices for Holding Cutter-Bars in Grinding.

No. 138,136.

Patented April 22, 1873.



Witnesses
Jas. E. Hutchinson
Wm. M. Lynch

Inventor
Wm. H. Daniels
Edw. B. Biss
Attorneys

UNITED STATES PATENT OFFICE.

WILLIAM H. DANIELS, OF BRYAN, OHIO.

IMPROVEMENT IN DEVICES FOR HOLDING CUTTER-BARS IN GRINDING.

Specification forming part of Letters Patent No. **138,136**, dated April 22, 1873; application filed February 28, 1873.

To all whom it may concern:

Be it known that I, WILLIAM H. DANIELS, of Bryan, in the county of Williams and State of Ohio, have invented certain Improvements on Holders for Harvester-Cutters while being Sharpened, of which the following is a specification:

This invention relates to that class of holders for harvester cutter-bars, which consist, in the main, of a trestle and clamps for securing the cutter-bars thereto for the purpose of firmly holding them while being sharpened with an ordinary rifle. My improvement consists, first, in combining with the grooved top rail of the trestle a vertically-adjustable bar, which forms one side of the groove in the rail, and is located under the butt end of the knives close by their common bar. This bar of the trestle is made adjustable so that it can adapt itself to cutter-bars of different thickness; secondly, in the employment, with the top rail of the holder, of one or more devices for clamping the cutter-bar thereto, consisting of a button provided with a short lever-arm to facilitate turning it, and having a cam-surface upon the under side, where it comes in contact with the cutter-bar; thirdly, in making the front legs of the trestle—that is, those legs toward which the knives of the cutter-bar point when properly secured to the top rail—longer than the rear legs, for the purpose of giving to the holder the required steadiness while operating upon the knives. This feature is intended as a substitute for the foot-rail described and claimed in the Letters Patent of the United States granted to me February 27, 1872.

Figure 1 is a plan view of my holder for harvester-cutters while being sharpened. Fig. 2 is a vertical cross-section. Fig. 3 is a perspective of the button.

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

Along one edge of the top rail A a rectangular recess, *a*, is cut to form a seat or groove for the reception of the cutter-bar. The groove is about equal in width and depth to an ordinary cutter-bar, the knives of which will consequently overhang the top rail and permit

the application of a rifle to them. To the up-right side of the grooved top rail, adjacent to the groove *a*, is attached a bar or supplemental rail, B, for the purpose of giving support to the cutter-bar along the under side of its knives. The screws or bolts *b'*, which secure the supplemental rail, pass through vertical slots *b* therein, so that by loosening the screws or bolts the rail may be raised or lowered to be adjusted to different thicknesses of cutter-bars. The cutter-bar is clamped to its seat in the top rail by one or more buttons, C, which are pivoted upon the rail A back of its groove *a*, and are constructed with short lever-arms C'. The under surface of the buttons is cam-shaped, as at *c*, so that in turning them over upon the cutter-bar they will act like wedges, and establish a firm connection between the cutter-bar and the supporting-rails. The front legs A¹ extend from the top rail A of the trestle at the same angle as do the rear legs A², but they are made considerably longer than the latter, so as to throw the trestle into an inclined position and enable it the better to resist the tendency to tilt it forward when the operator bears down upon the knives with his rifle.

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

1. The combination of the recessed or grooved top rail A *a* and vertically-adjustable supplemental rail B, substantially as and for the purpose specified.

2. The buttons C C', having cam-surfaces *c* arranged flatwise upon the recessed or grooved top-rail A *a*, as shown and described, and for the purpose set forth.

3. A harvester cutter-bar holder of the character described, the front legs A¹ of which are longer than the rear legs A², substantially as and for the purpose specified.

In testimony whereof I have signed the foregoing specification in the presence of two subscribing witnesses.

WILLIAM H. DANIELS.

Witnesses:

JEFF. MILLER,

SIDNEY M. GLEASON.