W. H. DANIELS.

Holder for Harvester Cutters while being Sharpened.

No. 124,121. Patented Feb. 27, 1872.

Fig. 1.

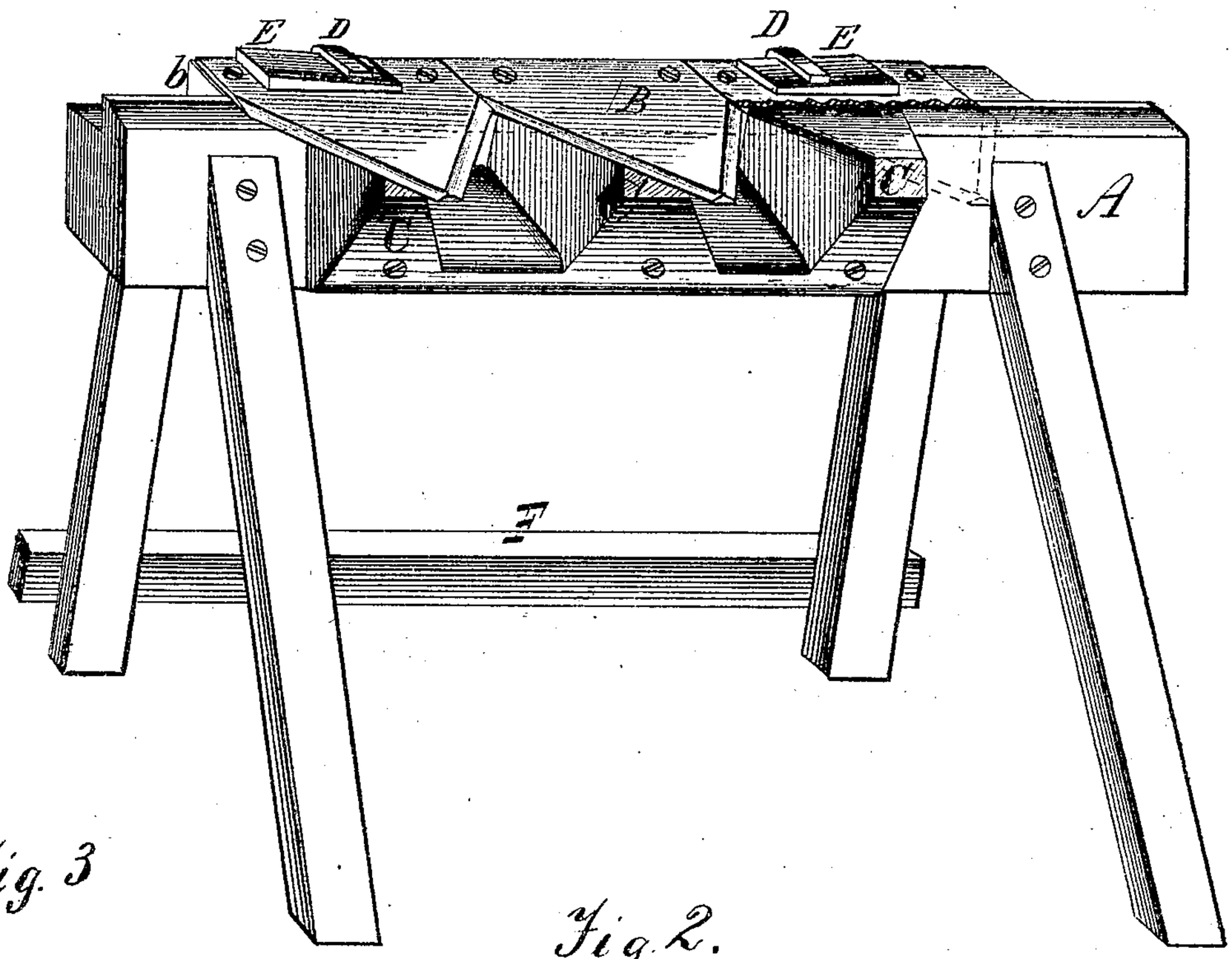


Fig. 3

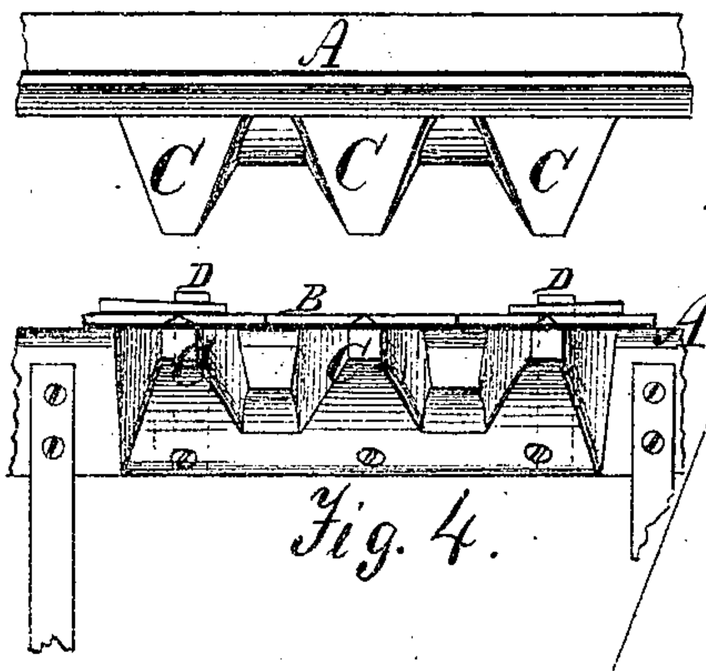
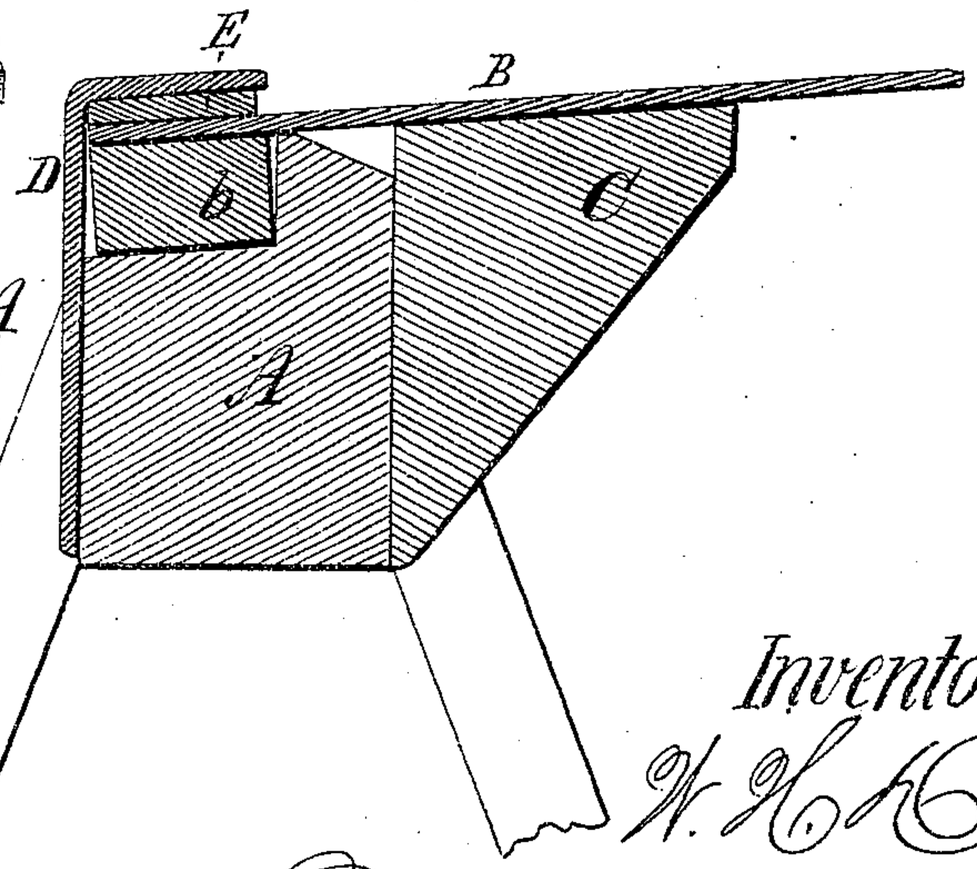


Fig. 4.

Fig. 2.



Witnesses.

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124,121

UNITED STATES PATENT OFFICE.

WILLIAM HENRY DANIELS, OF BRYAN, OHIO.

IMPROVEMENT IN HOLDERS FOR HARVESTER-CUTTERS WHILE BEING SHARPENED.

Specification forming part of Letters Patent No. 124,121, dated February 27, 1872.

Specification describing certain Improvements in Reaper-Knife Holders, invented by WILLIAM H. DANIELS, residing at Bryan, in the county of Williams and State of Ohio.

This invention relates to that class of devices for holding harvester cutter-bars, while undergoing the process of sharpening by a rifle, which are composed essentially of a trestle and angle-irons, the former serving to sustain the cutter-bar while the latter clamps it to the top rail thereof. My improvements consist, first, in the combination of fixed and inflexible angle-irons with the top rail of a trestle or horse, having a groove cut longitudinally in its upper side beneath the overhanging ends of the angle-irons, and fixed brackets extending from said top rail outward, one under each knife of the cutter-bar. The groove in the top rail receives the bar to which the triangular knives are fastened so as to prevent the cutter-bar from slipping away from under the angle-irons while subjected to the action of the rifle or other sharpening device, an accident—and a dangerous one to the operator, at that—frequently occurring in this class of holders when the cutter-bar rests upon the top of the rail, the liability to such slippling being still greater when spring-clamps are employed. The fixed brackets are for the purpose of preventing the "springing" of the knives by the pressure of the sharpening device upon them; second, in combining with the grooved top-rail, the brackets, and the fixed inflexible angle-irons, a rail connecting those legs of the trestle which are upon the rear side, or that side to which the angle-irons are secured. The operator, by placing his foot upon this rail while sharpening the knives, gives to the holder additional stability and guards against tipping of the same, which is likely to occur in consequence of the pressure brought to bear upon the overhanging knives.

Fig. 1 is a perspective view of my improved holder, showing a section of a harvester cutter-bar in position for sharpening. Fig. 2 is a vertical transverse section thereof. Figs. 3 and 4 are front and plan views on a smaller scale.

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

The top piece or rail A of the holder is constructed with a longitudinal groove in its upper side beneath the bent overhanging ends of the rigid angle-irons D. These clamps are made of bar-iron or cast-iron, as may be preferred, and are rigidly fixed upon the back side of the top rail A, and they are so disposed with reference to the groove in the said rail as to leave a space between their bent ends and the bottom of the groove somewhat deeper than the thickness of the cutter-bar B *b*, which, after being inserted in said groove, is fastened by wedges E in the manner shown. A portion of the top rail A is cut out of its front side, as seen best in Figs. 1 and 4, whereby a recess is formed there which is overhung by the triangular and cutting portion of the knives. Without any support at these points the knives would be apt to "spring" as they are borne down upon with the rifle, to guard against which a series of brackets, C, extend outward from the top rail, upon which the protruding portions of the knives may rest. These brackets are firmly and permanently secured to the top rail, and are made of the triangular form illustrated, corresponding in shape with that of the knives, but having, of course, a surface of smaller area to permit of the proper action of the rifle upon the knives. There is a clear vertical space between the brackets, as shown in Fig. 3, so that the rifle may be operated vertically to grind out nicks. F is the foot rail, secured to and connecting the legs upon the rear side of the trestle or holder.

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

1. The combination of the fixed and inflexible angle-irons D and wedges E, the top rail A having a longitudinal groove in its upper side beneath the overhanging ends of the angle-irons, and the triangular fixed brackets C, substantially as and for the purpose specified.

2. In combination with a reaper-knife holder, substantially such as described, I claim the foot-rail F, substantially as and for the purpose specified.

In testimony whereof I have hereunto signed my name this 13th day of July, A. D. 1871, in presence of two subscribing witnesses.

WILLIAM HENRY DANIELS.

Witnesses:
N. RUYEA,
JACOB YOUSE.