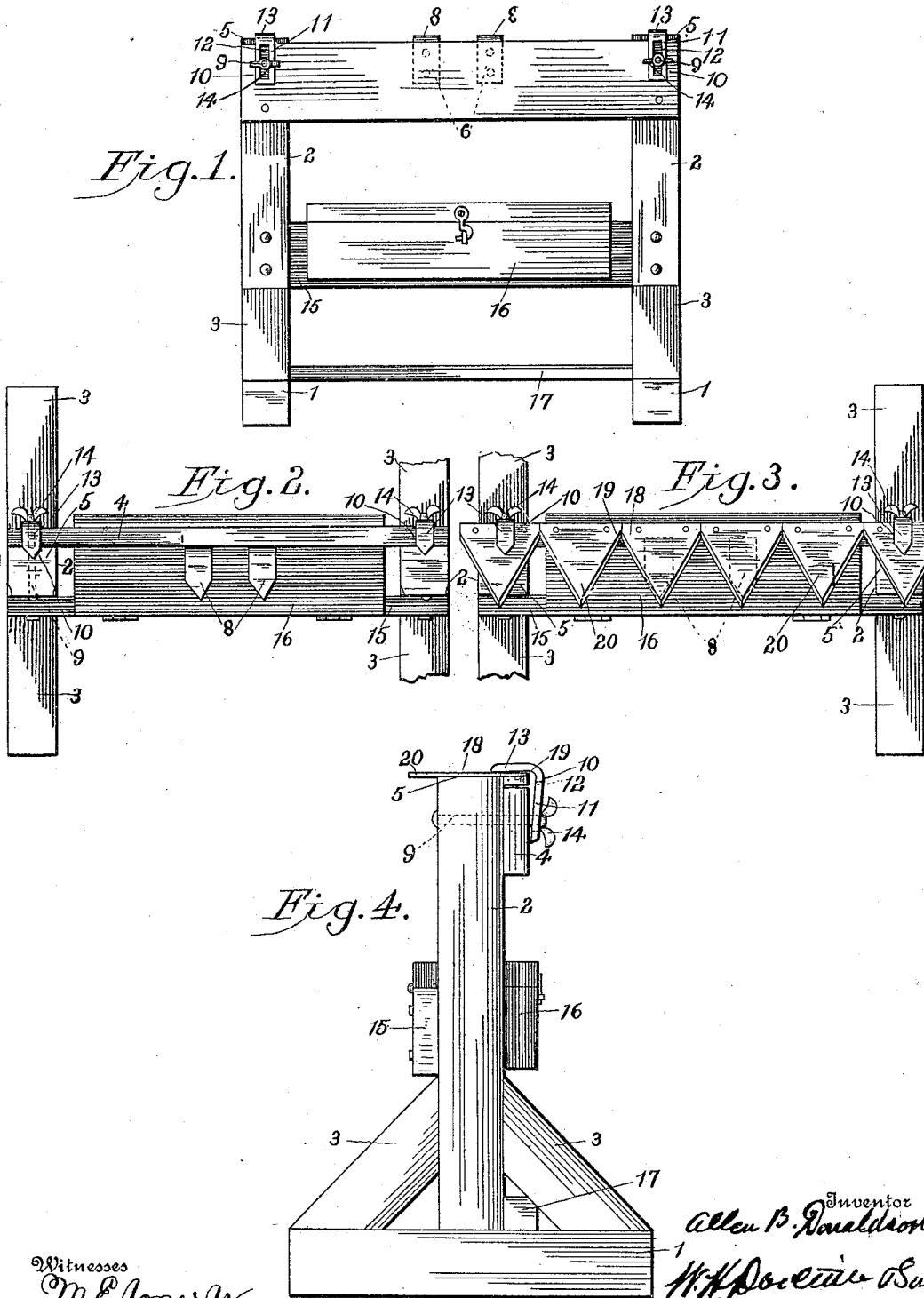


A. B. DONALDSON.
CLAMPING DEVICE FOR HOLDING CUTTER BARS FOR SHARPENING.
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956,313.

Patented Apr. 26, 1910.



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UNITED STATES PATENT OFFICE.

ALLEN B. DONALDSON, OF EWING, NEBRASKA.

CLAMPING DEVICE FOR HOLDING CUTTER-BARS FOR SHARPENING.

956,313.

Specification of Letters Patent.

Patented Apr. 26, 1910.

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To all whom it may concern:

Be it known that I, ALLEN B. DONALDSON, a citizen of the United States, residing at Ewing, in the county of Holt and State of Nebraska, have invented certain new and useful Improvements in Clamping Devices for Holding Cutter-Bars for Sharpening, of which the following is a specification.

My invention relates to clamping devices for holding cutter bars for sharpening and its object is to provide a portable stand and clamps carried thereby adapted to securely hold the cutter-bar in place and having the clamps so constructed that they may be readily adjusted to the thickness of the bar, all for the purpose of providing a cutter-bar supporting device which may be readily carried around with the mowing machine or by hand and set up at any place to enable the cutter to be supported thereon and sharpened by means of a file or other suitable sharpening tool.

To these ends my invention is embodied in preferable form in the device hereinafter described and illustrated in the accompanying drawings.

In these drawings, Figure 1 is a front view in elevation of the stand; Fig. 2, a top plan view; Fig. 3, a view similar to Fig. 2, showing the cutter bar clamped in place on the stand; Fig. 4, an enlarged detail end view showing one of the clamps and the cutter bar in clamped position.

Referring to the drawings, the stand has base-pieces 1, to which are secured the uprights 2. Diagonally extending brace-pieces 3, join each upright to its respective base-piece. To these uprights near their upper ends is secured a cross-bar 4, the upper surface of which is adapted to form the bed of the connecting bar of the cutter blade sections. The ends of the uprights project beyond the surface of the bar 4, to form shoulders 5, of a height substantially equal to the thickness of the bar of the cutter. The cutter blade sections rest upon the upper ends of the uprights and between the uprights are additional supporting members consisting of metallic bars having vertical arms 6 secured to the cross-bar 4 and rising above said bar to form shoulders corresponding to the shoulders 5, and then extended outwardly into horizontal fingers 8 on which the cutter blade sections bear when the bar is clamped in position.

Fixed in the cross-bar 4 and extending

forwardly and horizontally therefrom are screws 9, 9, one at each of the cross-bars and opposite the shoulder of the upright. On these screws are mounted clamps 10, having vertical arms 11, provided with elongated vertical slots 12, which slots fit over the screws. From the upper ends of these arms 11, extend horizontally over the cross-bar, pressure-fingers 13, adapted to bear upon the cutter. A winged nut 14, is mounted on each of the screws and is adapted to firmly secure the clamp in place at any desired adjustment. By means of the vertical arm of the clamp with the elongated slot, an extremely simple and effective means of enabling cutter bars of different thicknesses to be clamped in position is provided, without the necessity of providing a removable or adjustable supporting bed.

Secured to an intermediate cross-bar 15 is a tool box 16 in which may be carried the sharpening file, extra clamps or other attachments for the clamping stand or the mower.

Extending from the base is a lower cross-bar 17, forming a foot rest adapted to be employed when the operator is filing the cutter and serving also as a brace for the uprights securing rigidity of the frame of the stand.

A stand so constructed is particularly designed to be carried on the mower or by hand around the fields during the hay mowing and is especially intended to be employed in connection with a file for sharpening the cutter, which I have found to impart a much sharper and more durable edge than the grindstone and to require less labor and time.

In the use of my invention, a cutter provided with a connecting cutter-bar 18, for the cutter-sections is placed on the upper ends of the uprights 2, with the bar 18, fitting down on the cross-bar 4 and against the shoulders 5 of the uprights and the shoulders 7 of the additional supporting members. The cutter teeth sections 19, extend over and are supported by the upper ends of the uprights and horizontal fingers 8 of the intermediate supporting members and then the clamps are adjusted into position against the cutter-bar and tightened by means of the winged nuts.

Having thus described my invention, what I claim is:—

1. A stand for holding mower cutters for

sharpening comprising base pieces, uprights, a cross-bar adapted to receive and to support the connecting bar of the blade sections, said uprights extending above the cross-bar and
5 providing stop shoulders against which the said connecting bar bears, and intermediate supporting members secured to the cross-bar and having horizontal portions to receive the blade sections and also having stop shoulders
10 for the edge of the said connecting bar, substantially as described.

2. In a cutter clamping device, a stand having upright legs, a cross-bar extending between the same, at the upper part thereof
15 and forming a fixed bed for the connecting bar of the cutter sections, said uprights projecting above said bar whereby shoulders are provided against which the inner edge of the cutter bar is adapted to bear and
20 clamps having vertical portions confining the outer edge of the cutter and having fingers projecting horizontally over said cross-bar, said clamps having vertically elon-

gated slots whereby the clamps are made adjustable and means to secure said clamps
25 in position, substantially as described.

3. In a cutter clamping device, a portable stand having upright legs, a cross-bar forming a rigid horizontal bed for the connecting bar of the cutter, said uprights project-
30 ing above the cross-bar to provide cutter-bar holding shoulders, horizontal intermediate supporting members having vertical shoulder portions, adjustable clamp members, having vertical cutter bar confining
35 portions and horizontal pressure fingers and vertically elongated slots, screws on which the members are mounted and wing-nuts engaging the screws, substantially as described.

In testimony whereof I have affixed my
40 signature, in presence of two witnesses.

ALLEN B. DONALDSON.

Witnesses:

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