(No Model.)

G. H. MARKILLIE.

DEVICE FOR SHARPENING PLOWSHARES, &c.

No. 456,197. Patented July 21, 1891.

Fig. 1.

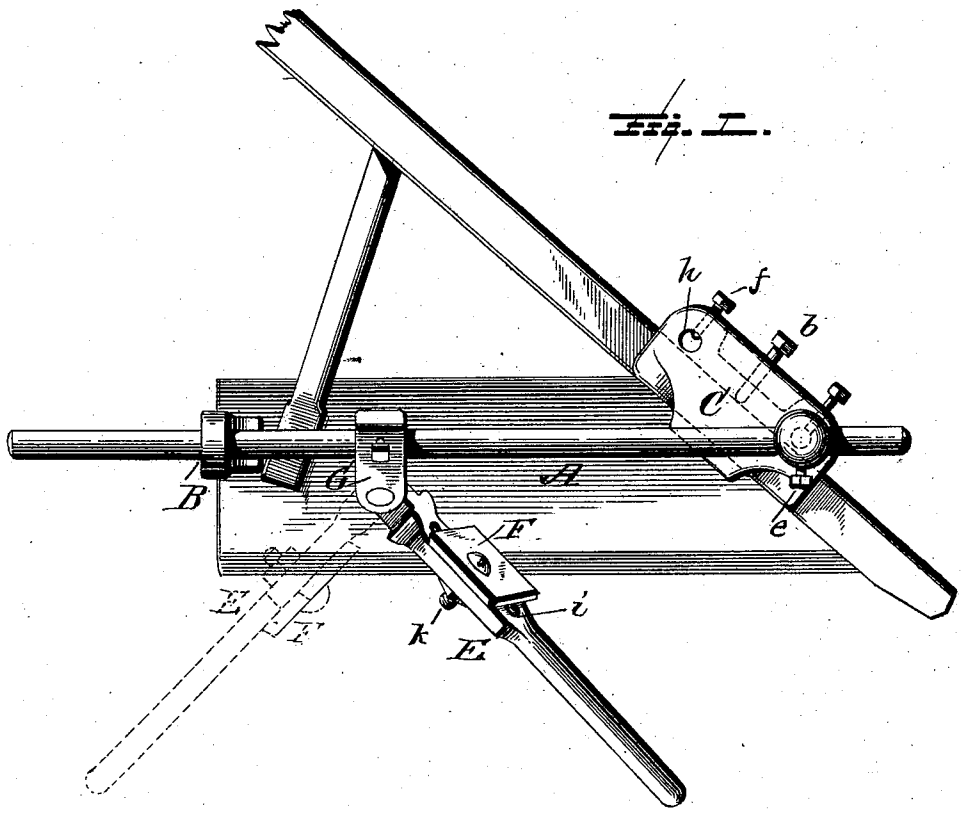
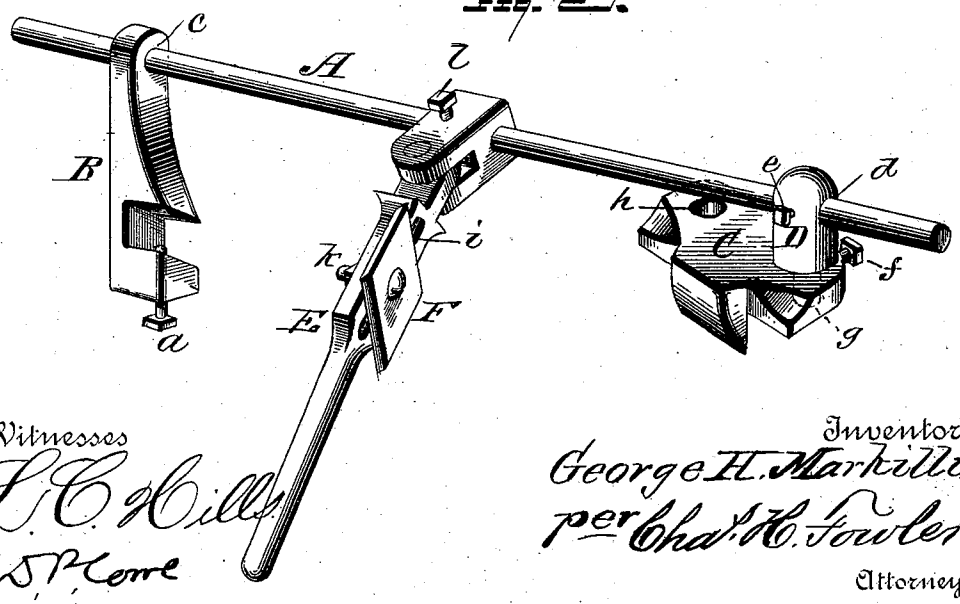


Fig. 2.



Witnesses
L. C. Hill
S. P. Lorre

Inventor
George H. Markillie.
per Chas. H. Fowler
Attorney

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

GEORGE H. MARKILLIE, OF ELVASTON, ILLINOIS.

DEVICE FOR SHARPENING PLOWSHARES, &c.

SPECIFICATION forming part of Letters Patent No. 456,197, dated July 21, 1891.

Application filed March 26, 1891. Serial No. 386,574. (No model.)

To all whom it may concern:

Be it known that I, GEORGE H. MARKILLIE, a citizen of the United States, residing at Elvaston, in the county of Hancock and State of Illinois, have invented certain new and useful Improvements in Cutter-Sharpeners for Plows, &c.; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters of reference marked thereon.

Figure 1 of the drawings represents a perspective view of my improved cutter-sharpener, showing it applied to a plow; Fig. 2, a perspective view detached from the plow.

The present invention has for its object to provide a simple and successfully-operating device that will admit of ready attachment to plows, stalk-cutters, road-graders, and all classes of agricultural and farm implements or machines, and all machines, implements, and tools of whatever character for which a sharpener of the construction hereinafter described will be found useful, whereby the part desired may be quickly and effectively sharpened, after which the device may be readily removed and again applied to other objects required to be sharpened.

The invention consists in a device constructed substantially as shown in the drawings and hereinafter described and claimed.

In the accompanying drawings, Fig. 1, I have shown a portion of a plow, sufficient to illustrate the application and use of my invention, although this is one of many implements or machines to which the cutter-sharpener may be adapted and used, and therefore I do not desire to be understood as limiting myself to any particular class of machines or implements, and therefore reserve the right to apply my invention wherever it will be found useful.

The device consists in part of a guide-rod A, which also acts as a brace, said guide-rod having connected thereto the clamps B C, which are provided with clamp-screws *a b*, respectively, the clamps being of any suitable and well-known construction to adapt them to the machine or implement to which the cutter-sharpener is to be attached.

In the present instance I have shown the clamps as applicable to a plow, the clamp B being attached by the screw *a* to the heel of the plowshare, and the clamp C by means of the screw *b* is connected to the landside of the plow, the plow being shown upside down, and which position it should assume for the purpose of attaching the cutter-sharpener. The guide-rod A passes loosely through hole *c* in the clamp B and through hole *d* in a bracket D and is held to the bracket by a set-screw *e*. The bracket D is removably held to the clamp C by means of a set-screw *f*, and has a pin *g* upon its under side, which enters a hole in the bracket and is held in place by the screw *f* pressing against the pin.

With the construction above described a pivotal connection is made between the clamp and bracket, the latter being capable of turning upon its axis and held in the position in which it has been brought by the set-screw *f*. In addition to this axial movement or adjustment of the bracket, it also has a vertical adjustment in a slight degree, which adjustments bring the bracket in the proper position for the reception of the end of the guide-rod and adapt it to the position the clamp C assumes with relation to the clamp B. The clamp C has an additional hole *h* for the reception of the pin *g* of the bracket, so that it can be changed from one end of the clamp to the other, as circumstances require.

The lever E is provided with a suitable handle, by which it may be controlled in the act of sharpening, said lever having an elongated slot *i* for the reception of a bolt *k*, by which means the cutter-blade F is adjustably connected to the lever.

The lever E is pivoted to the sliding head G, which is provided with a set-screw *l* to hold it on the rod A at any position placed, so as to adapt it to the entire length of the plowshare.

The cutter-sharpener is adapted to a right or left hand plow, and provision is made for its proper adjustment, as hereinbefore described, such adjustment being accomplished by moving the bracket D to the opposite hole in the clamp C.

The cutter-blade F may be of any well-known construction, and any suitable and

well-known means may be employed for removably and adjustably connecting it to the lever E, and I reserve the right to make any changes or modifications in the several details of construction as would come within ordinary mechanical skill without departing from the principle of my invention.

Having now fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a cutter-sharpener, the combination of a guide-rod, clamps for supporting said rod and detachably connected thereto and adapted for attachment to the object to be sharpened, a head adjustable upon the rod, a lever pivoted to said sliding head, and a cutter-blade connected to the lever, substantially as and for the purpose set forth.

2. In a cutter-sharpener, suitable clamps adapted for attachment to the object to be sharpened, a bracket removably and adjustably connected to one of the clamps, and an adjustable guide-rod, in combination with a suitable head slidable upon the rod and held in its adjusted position by a set-screw, a lever pivoted to said head, and a cutter-blade connected to the lever, substantially as and for the purpose described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

GEORGE H. MARKILLIE.

Witnesses:
CHAS. VANARAM,
WM. A. ODEN.