

S. P. DOANE.
Sharpening-Rifle.

Patented July 20, 1875.

No. 165,806.

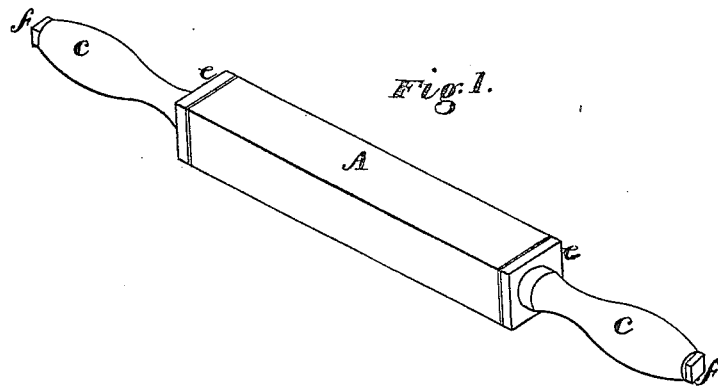
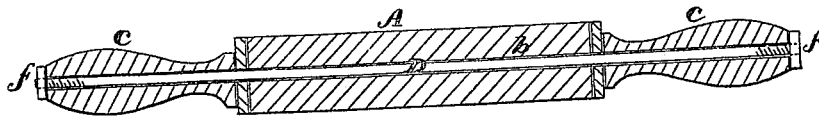


Fig. 2.



Witnesses
Geo. H. Strong.
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UNITED STATES PATENT OFFICE.

SHARRON P. DOANE, OF SAN FRANCISCO, CALIFORNIA.

IMPROVEMENT IN SHARPENING-RIFLES.

Specification forming part of Letters Patent No. **165,806**, dated July 20, 1875; application filed May 3, 1875.

To all whom it may concern:

Be it known that I, SHARRON P. DOANE, of San Francisco city and county, State of California, have invented an Improved Rifle for Sharpening Harvester-Cutters; and I do hereby declare the following description and accompanying drawings are sufficient to enable any person skilled in the art or science to which it most nearly appertains to make and use my said invention or improvement without further invention or experiment.

My invention relates to an improved device for holding an emery-block or whetstone for sharpening harvester-cutters. My device is intended to hold the stone or block firmly, and support it throughout its entire length, so that when a soft or friable stone—such as sandstone—is used there will be no danger of its breaking under the strain required to press it against the edge of the cutters.

My holder has two handles, one at each end of the block. These, however, have been used before; but the stone was held between two clamps without any stiffening device or direct support, so that when the middle of the stone became worn down it was weakened, and therefore liable to be broken by the pressure necessary to sharpen the cutters; but by my arrangement the stone is supported throughout its length, so that there will be no danger of its breaking, even when it has worn nearly off.

In the accompanying drawing, A is a block of sandstone or other grinding-stone which is suitable for sharpening harvester-cutters. This stone is of the desired length and shape to sharpen the cutters. As a general thing, the longer it is the better, as the longer the stroke

the quicker and more uniformly will the cutter be sharpened. Longitudinally through the center of this stone I drill a hole, *b*. C C are the two handles of the holder. D is a rod, which is as long as the two handles C C and the stone A. This rod passes through the handles and stone, as represented at Fig. 2, so that the stone will be suspended on the rod between the two handles. Between the inner end of each handle and each end of the stone I place a cap or plate, *e*, which will fit the end of the stone. Both ends of the rod D are provided with screw-threads, and a nut, *f*, screws upon each end, so as to draw the handles together and clamp the stone between them; or one end of the rod may be headed, and only one nut be used.

It will thus be seen that the rod D passes longitudinally through the stone, so as to support it at every point, and prevent it from breaking when it becomes worn, as it usually does in the middle.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

The stone or block A, having the hole *b* made longitudinally through it, in combination with the handles C C, rod D, end plates *e*, and tightening-nut *f*, all combined and arranged to operate substantially as and for the purpose described.

In witness whereof I hereunto set my hand and seal.

S. P. DOANE. [L. S.]

Witnesses:

JAS. S. MACKENZIE,
GEO. H. STRONG.