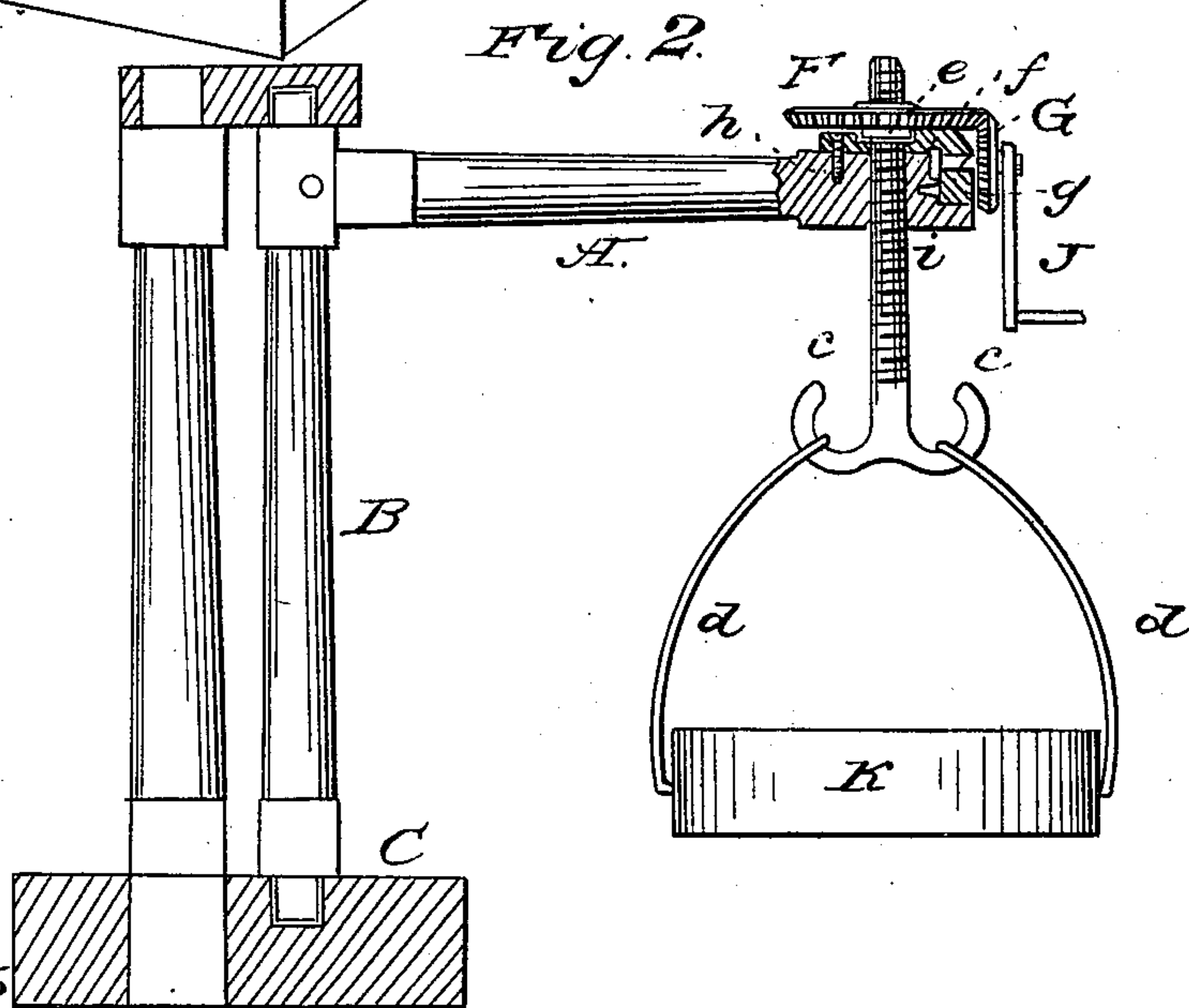
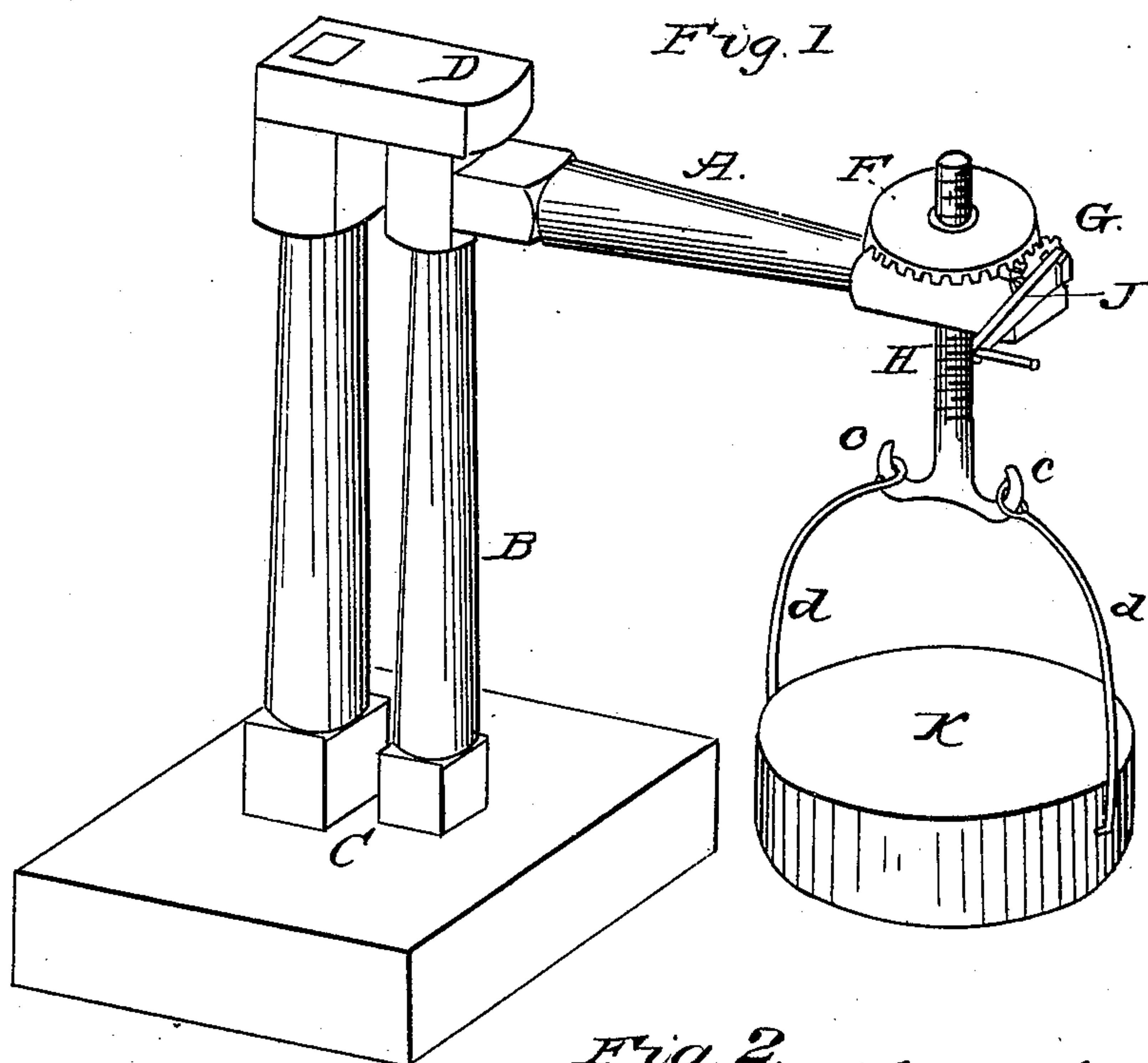


A. M. BRUCKART.  
Elevating Mill Stones.

No. 37,732.

Patented Feb. 24, 1863.



Witnesses

Charles Smith  
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Inventor.  
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# UNITED STATES PATENT OFFICE.

A. M. BRUCKART, OF BRUNNERVERVILLE, PENNSYLVANIA.

## IMPROVEMENT IN ELEVATING MILLSTONES.

Specification forming part of Letters Patent No. 37,732, dated February 24, 1863.

*To all whom it may concern:*

Be it known that I, A. M. BRUCKART, of Brunnerville, in the county of Lancaster and State of Pennsylvania, have invented an Improved Mill Screw or Device for Elevating Millstones; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 illustrates my invention by a perspective view. Fig. 2 represents a sectional elevation of the same.

Similar letters of reference indicate corresponding parts in the two figures.

The object of this invention is to obtain a simple device whereby millstones may be easily and expeditiously elevated from their bed when it is desired to redress or sharpen them, and after this being done to as easily and quickly replace them, the stone while in suspension being so held as to enable it to be turned upside down, or so as to bring its face or grinding-surface uppermost, or the whole swung to one side; and to this end the invention consists in an arrangement of parts hereinafter to be fully explained.

To enable others skilled in the art to fully understand my invention, I will proceed to describe its construction and operation.

A represents a horizontal arm, which is mortised at one end into the upper end of a post, B, and at its other end supports the elevating mechanism. The post B is provided at each end with a gudgeon, by which it is held in an upright position, and is allowed to be turned thereupon in a horizontal plane, the gudgeon at the lower end of the post resting in a cavity in the pedestal C, or it may be in the floor of the mill, and the gudgeon at the upper end fitting a cavity in the cap D, which may either be attached to and project from the upper end of a rigid post, as shown in the accompanying illustration, or it may project from one of the uprights of the mill in which the device is to be used.

The elevating mechanism consists of a bevel cog-wheel, F, a pinion, G, and screw H, the latter of which terminates at its lower end in

two oppositely-projecting hooks, *cc*, from which the millstone K is suspended by two long hooks, *dd*. The wheel F is provided on its lower side with an axial hub, *e*, which fits a countersink in the metal cap *f*, and serves to hold the wheel F in gear with the pinion G. The pinion G is loosely fitted on a stud-shaft, *g*, and rotated by means of a winch, J, attached to it.

The wheel F is screw-threaded, and fitted upon the screw H, whereby the latter is raised or lowered, and with it the millstone, if attached, according as the wheel is rotated in one or the other direction by the winch and pinion. The metal cap *f* is made in the form of a knee and attached to the arm A by a screw, *h*, and pin *i*, the latter projecting from the cap.

When it is desired to take off the upper millstone for the purpose of redressing and sharpening it or the lower or bed-stone, or for any other purpose, two holes are made opposite to each other in the periphery of the upper stone to receive the fangs of the long hooks *dd*. These hooks *dd* are curved and of sufficient length to admit of the stone being turned over upon the fangs to bring one side or the other uppermost, as may be desired. The stone while held in suspension may be swung to one side or other, to be propped up in a convenient position to work at.

The above described device is very simple, both in its construction and operation, and with it the time and labor usually required to effect the same result is greatly reduced.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, as an improvement in mill-screws, is—

The screw H, provided at its lower end with two oppositely-projecting hooks, *cc*, bevel-wheel F, pinion G, and winch J, in combination with the metal cap *f*, stud-shaft *g*, horizontal arm A, and hooks *dd*, when the whole is arranged to operate in the manner and for the purpose specified.

A. M. BRUCKART.

Witnesses:

JOHN R. WOLF,  
E. BURKHOLDER.