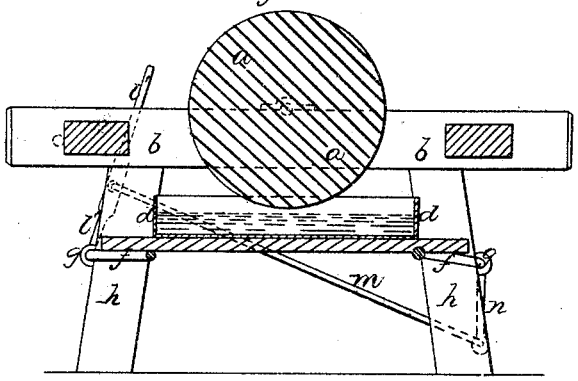
J. F. SHILLABER.

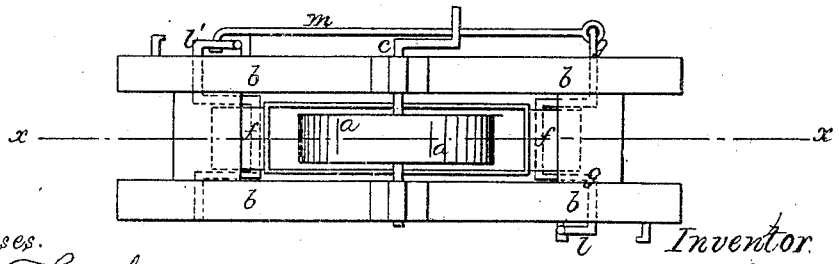
GRINDSTONE.

No. 49,928. Patented Sept. 12, 1865.

Fig; 1.



Fig; 2.



Witnesses.

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UNITED STATES PATENT OFFICE.

JOHN F. SHILLABER, OF PORTSMOUTH, NEW HAMPSHIRE.

IMPROVEMENT IN GRINDSTONES.

Specification forming part of Letters Patent No. **49,928**, dated September 12, 1865.

To all whom it may concern:

Be it known that I, JOHN F. SHILLABER, of Portsmouth, in the county of Rockingham and State of New Hampshire, have invented a new and useful Improvement in Grindstones; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

The present invention consists in so arranging the receptacle or vessel containing the water, and through which the grindstone passes when revolved, in such a manner that it can be readily adjusted to any desired height with regard to the stone, according to the quantity of water necessary to be supplied to its surface, or set entirely away therefrom, so that the stone when not in use shall not remain in the water, as has heretofore been the case, and which, as is well-known, greatly tends not only to soften the stone, but also often seriously injures it, causing it to peel or crumble to pieces.

In accompanying plate of drawings my improvement is illustrated, Figure 1 being a plan or top view of a grindstone with my improvement applied thereto; and Fig. 2 a central longitudinal vertical section taken in the plane of the line *x x*, Fig. 1.

a a in the drawings represent a grindstone, made of any size and of the material ordinarily employed therefor, hung in the usual manner upon the supporting-standard frames *b b*, made of the requisite strength and size, and having a crank-handle, *c*, for convenience in turning the same.

d d represent the water box or receptacle, placed below the grindstone and in the same plane as that of its revolution, resting at each end upon the crank portion *f* of horizontal cross-rods *g*, turning in bearings of the supporting-legs *h h* of the frames *b b*. Upon one end of each of these rods *g*, but on opposite sides of the frames *b b*, is an upright handle-lever, *l l'*, from one of which, *l'*, passes a connecting-rod, *m*, to the lower end of the link piece *n*, hung upon the other crank-shaft at the opposite end of the frames, so that when one crank-shaft is moved or turned by its handle the other will be correspondingly operated.

In the box *d* the water used is placed as represented in Fig. 1 by red lines, and it also catches all the drippings from the stone when water is allowed to drop upon it from a reservoir or cask, properly arranged therefor.

From the above description it is apparent that by moving either one of the lever-handles to the right or left, according to its position with regard to the stone, the water-receptacle can be either raised or lowered, and in direct proportion to the length of movement given to the handle, thereby bringing the water therein nearer to or farther from the stone, as may be desired or necessary to give the requisite moisture to the surface of the stone, or it can be sufficiently lowered to remove it entirely from contact with the stone, a pin or other suitable device being used to hold the handle in its position and prevent it from moving back.

There are various ways in which the water-box may be arranged to accomplish the above results without departing from the principles of the present invention, as hereinbefore stated, and therefore I do not intend to limit myself to any particular arrangement thereof.

I claim as new and desire to secure by Letters Patent—

So arranging the lower water box or receptacle of a grindstone that it can be raised toward or lowered from the stone, substantially as herein described, and for the purposes specified.

The above specification of my invention signed by me this 26th day of May, 1865.

JOHN F. SHILLABER.

Witnesses:

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