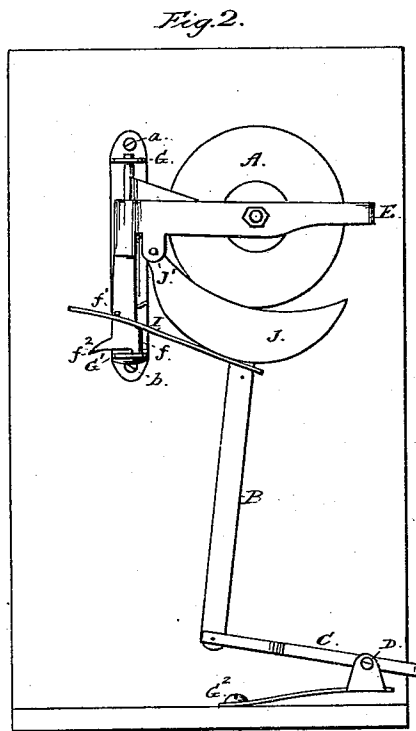
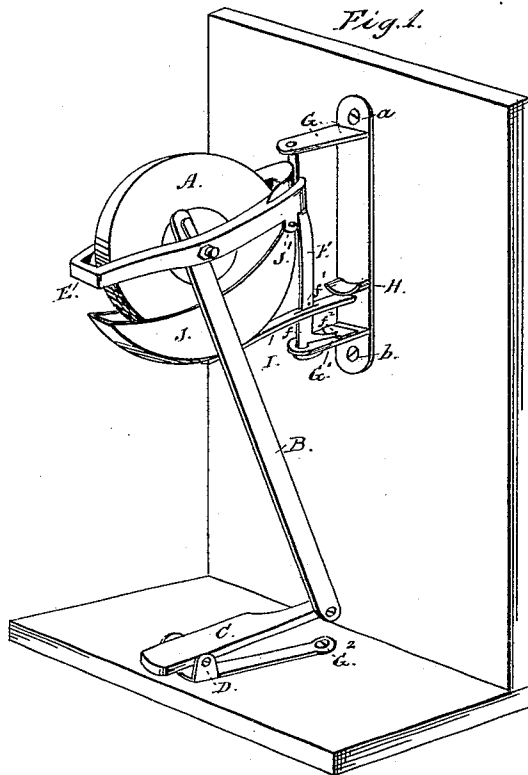


(Model.)

F. S. SMEDLEY.
Family Grindstone.

No. 242,565

Patented June 7, 1881.



Attest;

W. Howard
J. H. Hall,

Inventor,

Fred S. Smedley,
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Attys.

UNITED STATES PATENT OFFICE.

FRED. S. SMEDLEY, OF BEREA, OHIO.

FAMILY GRINDSTONE.

SPECIFICATION forming part of Letters Patent No. 242,565, dated June 7, 1881.

Application filed October 14, 1880. (Model.)

To all whom it may concern:

Be it known that I, FRED. S. SMEDLEY, of Berea, in the county of Cuyahoga and State of Ohio, have invented a new and useful Improvement in Grindstones; 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, and to the letters of reference marked thereon.

My invention relates to certain improvements in domestic or family grindstones, and has for its object the construction of such grindstones with treadle attachment, so that they will be out of the way when not in use, and can be readily swung into position for using when desired.

In the drawings, Figure 1 is an elevation of my improved grindstone in position for use; and Fig. 2, a side view of same, swung back against the wall, as it appears when not in use.

A is the stone; B, the treadle-rod, communicating motion to the crank on the stone by means of the treadle C, which is fastened to the base at D, the base being pivoted at the point G² to the floor.

E F represent the frame swinging in the brackets G G'. The part E of this frame supports the grindstone, which turns within the same on suitable bearings, as shown. The part F of said frame extends from the rear of the part E in nearly a vertical line to the proper distance above and below such part until it engages with the brackets G G', in which it has suitable bearings, as shown in Fig. 1.

J is the water-trough, which has one of its ends pivoted to the lugs J', projecting downward from the rear end of part E, as shown. When the stone is in use this trough is in the position shown in Fig. 1, which allows the stone to run through the water which it contains, the said trough being held in place by the lever I, which, as the stone is swung out from the wall, is engaged with the lug H, depressing one end and causing the other to be elevated, and consequently to elevate the trough. When the stone is swung back out of the way the lever is disengaged from the lug, thus allowing the trough to fall into the position shown in Fig. 2, and consequently preventing the grinding-surface of the stone from coming in contact with the water con-

tained therein. The lever employed in raising and supporting the trough is slotted at a proper point to slip over the part F of the frame, where it rests upon a projection, f', on the lower side of said part, next the trough, thus forming a fulcrum for said lever to work upon. A pin, f', is passed through the part F at a certain point above the lever, so that the same may strike against said pin when freed from the lug H, and permit the trough to drop below the grindstone a sufficient distance to keep its surface out of contact with the water in said trough.

In the drawings the brackets G G' are shown permanently fastened to a back supporting-piece, carrying the lug H, and fastened to the wall by screws a b or other suitable means; but I prefer to make the brackets detachable from the back piece, so as to allow the frame E F to be placed in position while such parts are being screwed into place.

For the purpose of holding the grindstone and its frame in position when in use, a projecting spur, f², on the part F of the frame engages with a V-slotted projection on one of the brackets, as shown in Fig. 1.

When the frame and stone are swung back against the wall, the treadle-rod, treadle, and base will also swing back out of the way, the base being loosely pivoted to the floor, as shown.

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

1. In a swinging grindstone, the combination of the treadle C, treadle-bar B, and stone A with the supporting swinging frame E F and bracket G G', all constructed and arranged substantially as and for the purpose described.

2. A swinging grindstone having the frame E F, trough J, brackets G G', lever I, and lug H, as and for the purposes set forth and described.

This specification signed and witnessed this 4th day of May, 1880.

FRED. S. SMEDLEY.

Witnesses:

F. BROWN,
IRVINIA E. BROWN.