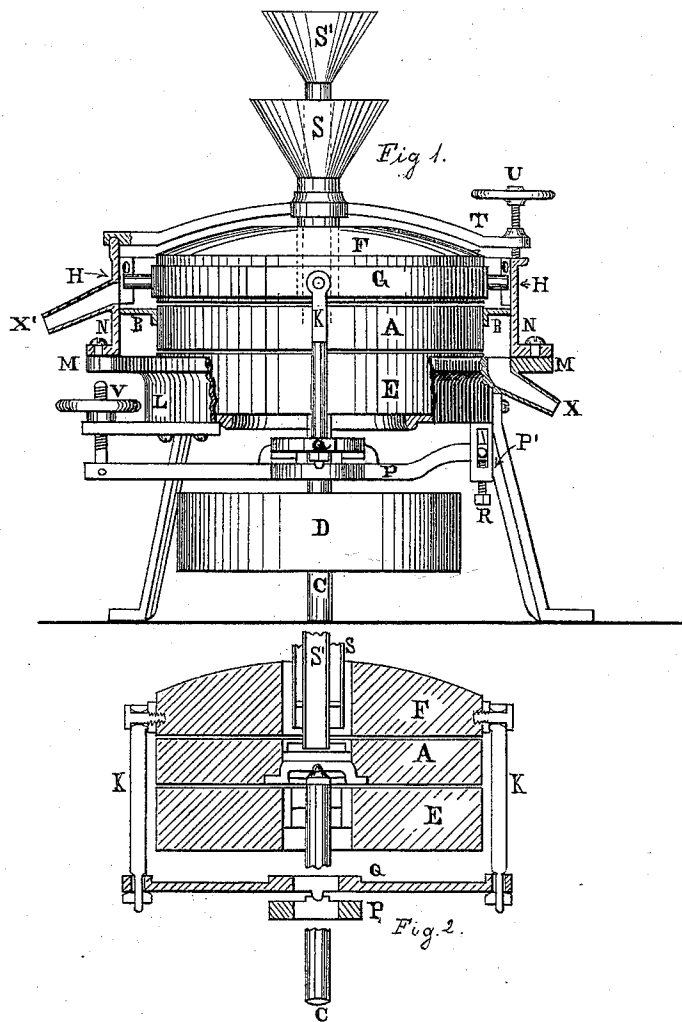


G. HIBSHER.
Grinding-Mills.

No. 151,025.

Patented May 19, 1874.



Witnesses

Thomas Edmunds
John B. Edmunds

Inventor:

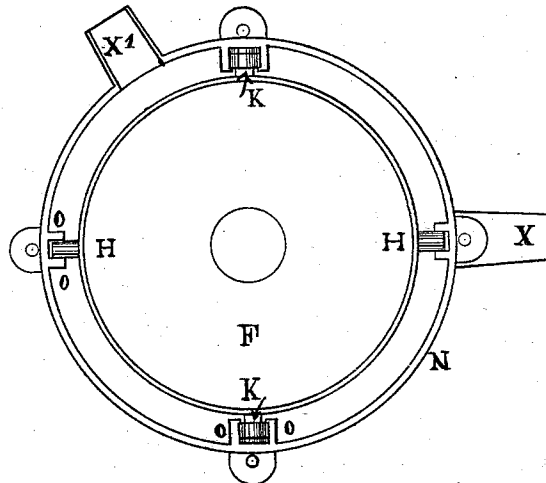
George Hibsher
per Michael J. Stark
Attorney

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FIG. 3.



WITNESSES:

John B. Edmonds
Thomas Edmonds

INVENTOR:

George Hibsher
per Michael J. Stark
Attorney.

UNITED STATES PATENT OFFICE.

GEORGE HIBSHER, OF LANCASTER, NEW YORK.

IMPROVEMENT IN GRINDING-MILLS.

Specification forming part of Letters Patent No. **151,025**, dated May 19, 1874; application filed March 25, 1874.

To all whom it may concern:

Be it known that I, GEORGE HIBSHER, of Lancaster, Erie county, State of New York, have invented a Double Flour-Mill, of which the following is a specification:

My invention relates to improvements in flour-mills, the nature of which is hereinafter fully explained by reference to the following description and the accompanying drawings, which form part of this specification.

Figure 1 represents my improved mill in a front elevation, parts being shown in section. Fig. 2 is a vertical section, showing the mode of hanging the upper adjustable stone F. Fig. 3, Plate 2, is a plan of my improved mill, illustrating the arrangement of the upper horizontal and adjustable stone F for preventing the same from revolving.

A is a horizontal runner. It is provided with a bail and driver of the usual construction, and revolved by means of shaft C and pulley D. It is sharpened on both its faces. E is the fixed bed-stone, and of the usual construction and adjustment. F is the upper movable and adjustable stone. It is sharpened on its lower face and provided with a band, G, shrunk on, or otherwise fastened to F. Said band G is provided with two prongs or studs, H H, and serve, in connection with guides O O and connecting-rods K K, the purpose of preventing the upper stone from revolving. L is the base. It has on its upper edge a flange, M, upon which the jacket N is fastened. N is the jacket. It is provided with guides O O, and also with two discharge-pipes, X and X'. P is a horizontal carrier-beam. It has its bearing within bracket P', and is raised and lowered by means of set-screw R and screw and hand-wheel V. P is also provided with two grooves, wherein is resting the swing-beam Q by means of tongues fastened to Q. Q is a swing-beam, resting and swinging upon carrier P, its action being exactly that of a scale-beam, and is provided on its extremities with two connecting-rods, K, thus connecting swing-bar Q with band G. S S' are two hoppers and feed-pipes, one placed within the other and reaching down one upon the upper and the other upon the lower face of runner A. They are adjustable for the purpose of controlling the feed by means of lever T and adjusting-screw U. X X' are two discharges—X for the lower side of A, and X' for the upper side of the same.

It will be observed that the adjustable horizontal stone F is adjusted vertically by means of the scale-beam arrangement of carrier P, swing-beam Q, connecting-rods K, band G, and adjusting-screw V, and that by the same means a universal-joint motion is imparted to the horizontal adjustable stone F. This has been done in order to keep the upper horizontal stone F always in contact with runner A, although the same may be of uneven thickness, or may be raised on one side or the other by the introduction of solid substances between either runner A and fixed bed-stone E or adjustable stone F.

The vertical adjustment of runner A is obtained by known means, and need, therefore, not be described.

Be it also observed that by the introduction of the collar B, fastened either to runner A or jacket N, the receiver for the ground substances is divided into two compartments, and that, therefore, different substances may be ground on the faces of runner A, and that X will discharge the contents of the lower, and X' those of the upper, compartment; or that the same substances may be ground on either faces of runner A with or without the collar B.

By the arrangement of one horizontal runner in combination with a fixed and an adjustable bed-stone, only one driving-gearing is employed, and therefore a great saving in cost, room, and running expense is produced.

Having thus fully described my invention, so as to enable any one skilled in the art to which my invention appertains to make and use the same, I desire to secure by Letters Patent the following:

1. The combination, with the stone F, of the band G, connecting-rods K K, swing-beam Q, carrier P, and adjusting-screws R and V, when constructed and arranged to operate substantially as and for the purpose described.

2. In combination with a horizontal runner, A, and upper and lower horizontal bed-stones E and F, the double hoppers and feed-pipes S and S', when placed one within the other, and serving the purpose of feeding both sides of runner A, respectively, substantially as described.

GEORGE HIBSHER.

Witnesses:

MICHAEL J. STARK,
JOHN B. EDMONDS.