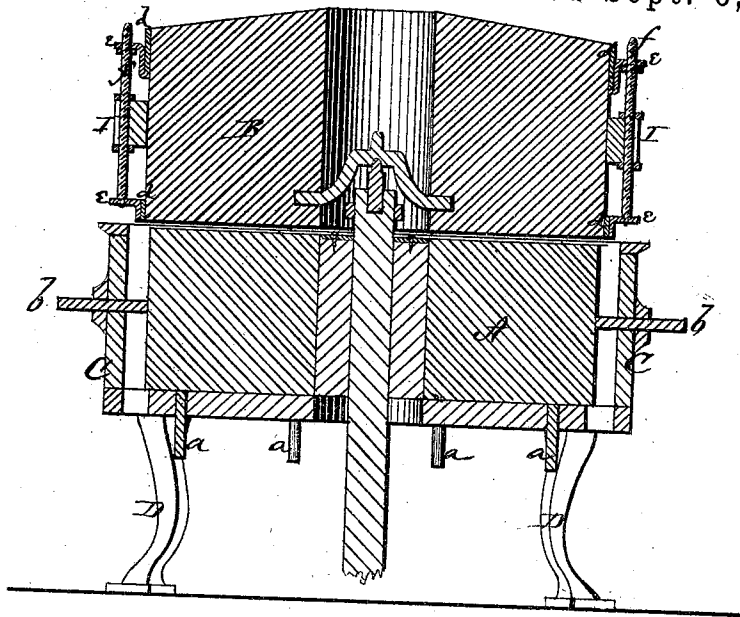


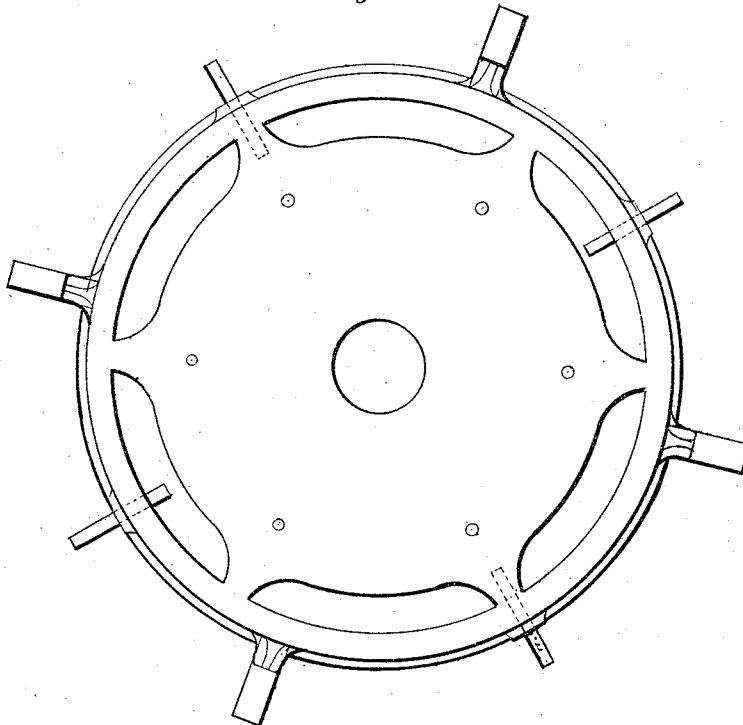
C. V. FOREMAN.  
Millstone Balance.

No. 107,029.

*Fig. 1.* Patented Sept. 6, 1870.



*Fig. 2.*



Witnesses

John A. Ellis.

Henry A. Miller

Inventor

Charles V. Foreman

Per.

J. H. Chapman  
Atty.

# United States Patent Office.

CHARLES V. FOREMAN, OF MECHANICSTOWN, MARYLAND.

Letters Patent No. 107,029, dated September 6, 1870; antedated August 26, 1870.

## IMPROVEMENT IN BALANCING MILLSTONES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, CHARLES V. FOREMAN, of Mechanicstown, in the county of Frederick and State of Maryland, have invented certain new and useful Improvements in Mills; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon which form a part of this specification.

The nature of my invention consists in a new method of placing the bed or stationary stone in mills, and also in attaching adjustable balances to the upper stone or runner bur.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawings, in which—

Figure 1 is a vertical section of a mill, showing my improvements, and

Figure 2 is a bottom view of the casing in which the bed-stone is placed.

A represents the bed-stone or stationary stone, and B, the upper or runner stone.

Usually the bed-stone is placed solid in the floor, and a casing or boards placed close up to its outer circumference. This has been found to have many inconveniences well known to all practical millers, and the object of my invention is to overcome these difficulties.

For this purpose the bed-stone A is placed in a box or casing, C, which is raised up from the floor, resting upon legs D D, as seen in fig. 1.

The box or casing C is of larger diameter than the bed-stone, so as to leave a space between the outer circumference of the stone and the inner circumference of the casing.

Through the bottom of the box or casing are placed a series of screws, *a a*, upon which the bed-stone rests, so that the stone can be raised and lowered at will for any desired purpose. This has never been

accomplished before, the bed-stone being heretofore invariably fixed so as to be immovable.

The bed-stone A is held, and if necessary trammed, by screws, *b*, passing inward through the sides of the casing C. The bottom of this casing is suitably cut along its outer circumference, so as to correspond with the space left between the bed-stone and casing. This can be done in various ways, one form of which is shown in fig. 2.

The runner bur or upper stone is generally provided with balances firmly imbedded in the stone, which balances cannot be moved. I provide the stone with adjustable balances in the following manner:

Around the upper and lower edges of the stone B are placed iron bands, *d d*, to which are, at suitable intervals, secured ears, *e e*, and in each set of two such ears is secured a bolt or rod, *f*, provided with screw-threads, said bolts or rods running perpendicularly, as seen in fig. 1.

On each of said bolts or rods *f* is placed a balance, *I*, the rod being screwed through the same. By this means the balances can be carried up to the upper edge of the stone, or down to the lower edge; in fact, can be adjusted in any manner desired.

Having fully described my invention,

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

The combination of the bands *d d*, when provided with ears *e e*, screw-rods *f f*, and balance-weights *I I*, when operated by means of the nuts *g g*, all constructed and arranged as herein set forth.

In testimony that I claim the foregoing as my own, I affix my signature in presence of two witnesses.

C. V. FOREMAN.

Witnesses:

WM. J. BLACK,  
D. C. MARTIN.