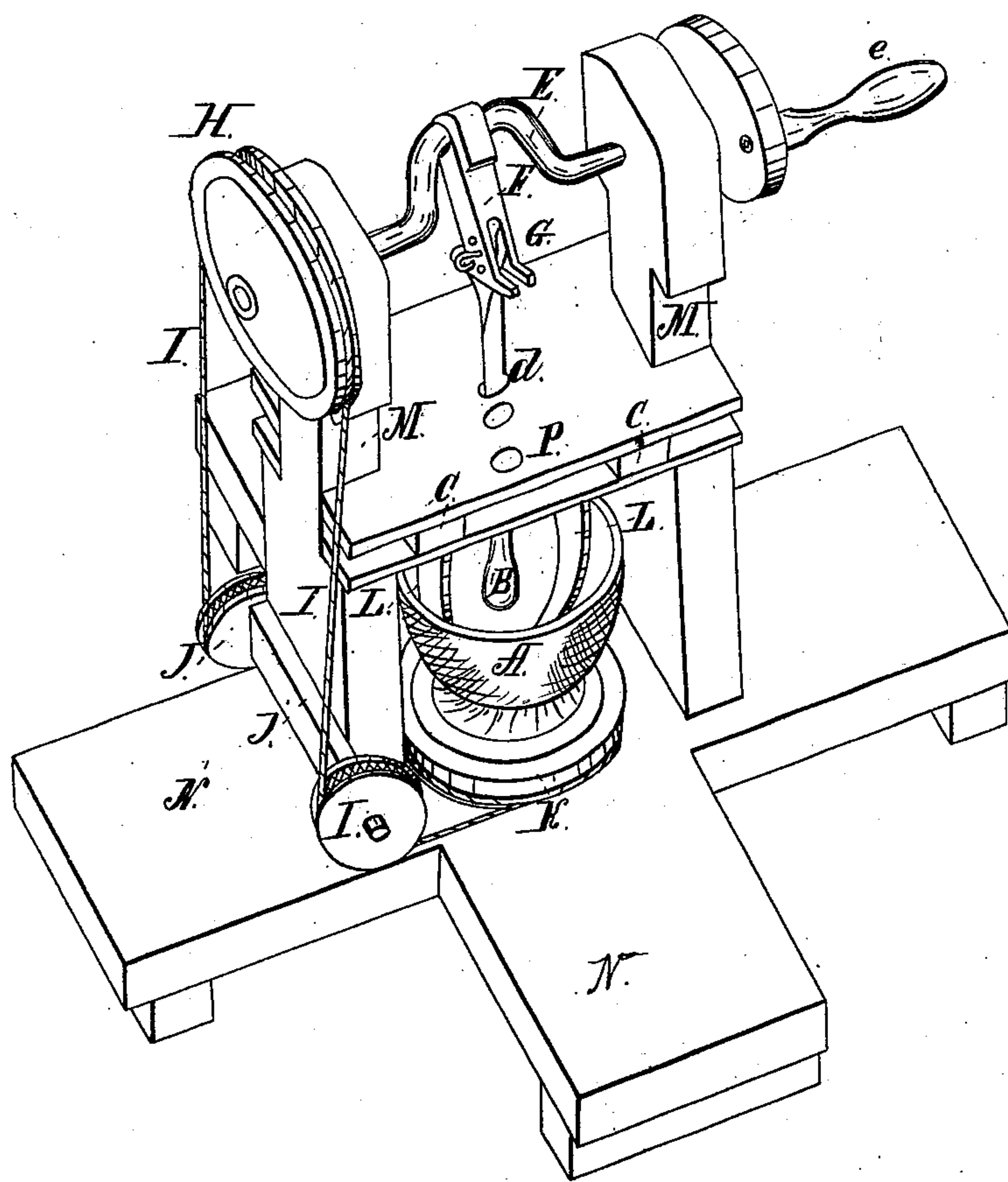


J. A. Fremon,
Pharmacists' Mortar,
Nº 85,223, Patented Dec. 22, 1868



Witnesses:
C. H. Pierce
James L. Stubbs.

Inventor:
J. A. Fremon.

United States Patent Office.

J. A. FREMON, OF MONTGOMERY, ALABAMA.

Letters Patent No. 85,223, dated December 22, 1868.

IMPROVED MORTAR.

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, J. A. FREMON, of Montgomery, in the county of Montgomery, and State of Alabama, have invented certain new and useful Improvements in Mortars; 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, and in which is represented a perspective view of my improved mortar.

The nature of my invention consists in the employment, in connection with a mortar, of a revolving grooved platform or disk, rotating on a circular rail, secured to a frame or table, and operated by means of a belt passing over two pulleys secured directly opposite it, and thence over another pulley or driving-wheel, attached to a crank-shaft, having its bearings in the upper ends of uprights secured on each side of the disk and mortar; in the employment of a sliding frame or cap, which is furnished, near and at its centre, with openings, and on its lower side with two cleaners; and also, in hinging the pestle to a rod or bar, connecting with the crank-shaft above described.

To enable others to avail themselves of the benefits of my invention, I will describe its construction and operation.

In the accompanying drawing, N N' represent two boards, crossing each other, and united at the centre, thus forming a frame or table.

Upon this frame is secured a circular rail, formed with flanges bent down and penetrating the wood.

K is a circular platform or disk, which is excavated or recessed on its upper surface, to receive the base of the mortar A, in order to hold said mortar thereon, and provided on its circumference with a groove, the object of which will be referred to hereafter.

M M are two uprights, secured on each side of disk or platform K, and made narrow on a portion of their surface, near the upper end, as seen in the drawing.

C represents a cap or frame, which is made so as to fit or rest at its ends on the shoulders of the uprights M, formed by its reduction, and sliding up and down on said uprights.

This cap or frame is provided, at and near its centre, with openings, D and P, the opening D being designed for the pestle to pass through while working in connection with the crank-shaft E, and openings P to allow the pestle to be attached firmly, by pin or otherwise, to the cap while in use for grinding extra hard substances.

L L are two cleaners, secured to the lower side of cap C by means of thumb-screws, and made to extend down in contact with the inner surface of mortar A, to prevent the mortar from becoming clogged.

B represents the pestle, which is made to extend up through the opening D of cap C, and hinged or pivoted to the connecting-rod or bar F by means of pin or key G, said pestle and connecting-rod or bar being provided with adjusting-holes, for the purpose of raising and lowering the said pestle, when desired.

The connecting-rod F is attached to the looped or cranked part of shaft E by means of a band or strap passing around the said shaft, and connecting at each end with the rod F.

E designates the crank-shaft, which has its bearings in the upper ends of uprights M, and supplied at one end with a wheel, to which is attached a handle, e, and provided at its opposite end with a driving-wheel or pulley, H, over which passes a belt or band, I, extending down over two other pulleys, J J, having their bearings on an axle, j, secured to lower part of one of the uprights M, and thence around the grooved revolving platform or disk K, the object of said band or belt being to communicate a rotatory motion to the circular platform or disk K.

It will be observed that the rotating disk and mortar can both be removed from their original position, when desired, by merely raising the sliding cap or frame C, with its cleaners.

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

1. The circular-grooved platform or disk K, rotated on a circular rail secured to the platform or table N N', in combination with the mortar A, operated and arranged substantially as and for the purpose set forth.

2. The sliding frame or cap C, provided with the openings D and P and cleaners L L, in combination with the uprights M and frame or boards N N', all arranged and operated substantially as and for the purpose set forth.

3. The pestle B, hinged to the connecting-rod F of crank-shaft E, arranged and operated substantially as described.

4. Frame or boards N N', uprights M, axle j, pulleys J J, cap or sliding frame C, revolving disk or platform K, mortar A, cleaners L L, pestle B, connecting-rod F, pin G, crank-shaft E, handle e, driving-wheel or pulley H, and band or belt I, when combined, arranged, and operated substantially as and for the purpose set forth.

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

J. A. FREMON.

Witnesses:

E. F. PIERCE,
JAMES E. STUBBS.