

(No Model.)

E. H. & C. MORGAN.

COFFEE MILL.

No. 399,686.

Patented Mar. 19, 1889.

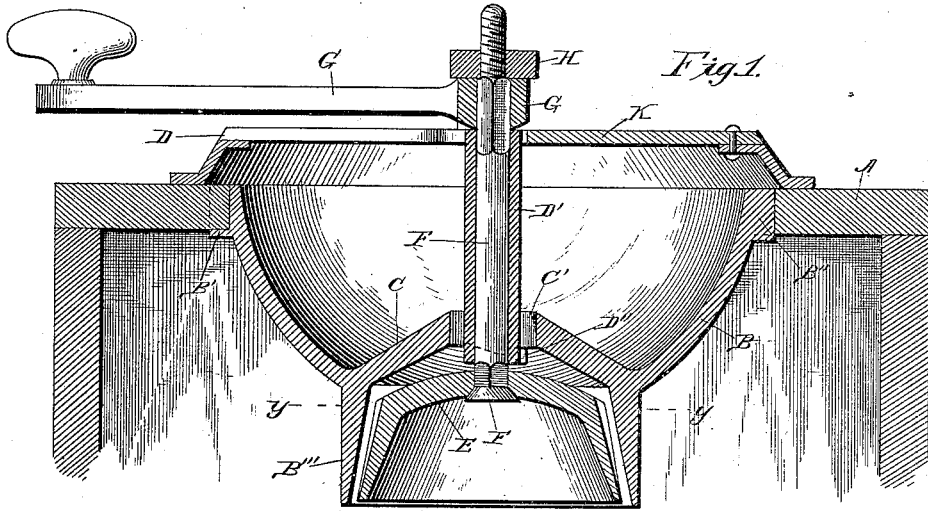


Fig. 1.

Fig. 2.

Fig. 3.

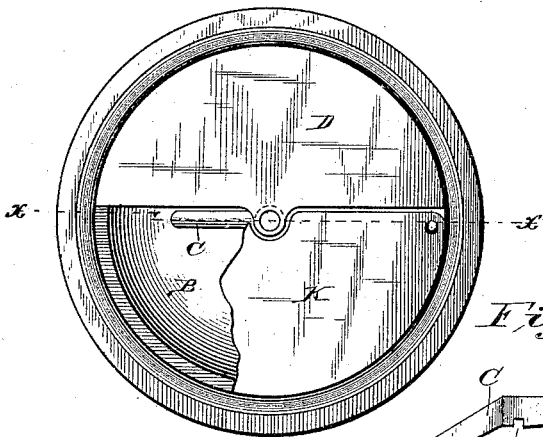


Fig. 4.

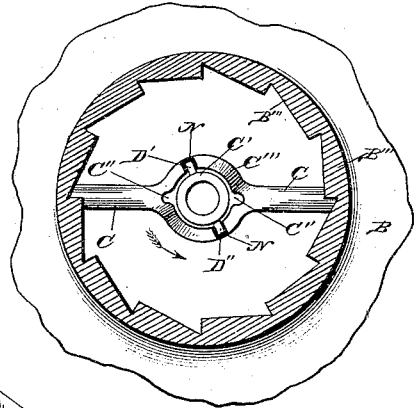
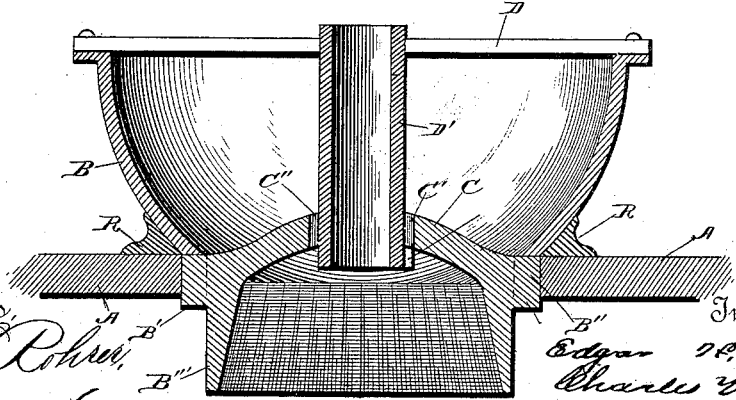
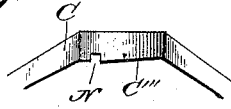


Fig. 5.



Witnesses,

H. D. Rohrer,
C. W. Green,

Inventors.

Edgar W. Morgan
Charles Morgan
My Wife & I

Attorneys.

UNITED STATES PATENT OFFICE.

EDGAR H. MORGAN AND CHARLES MORGAN, OF FREEPORT, ILLINOIS, ASSIGNORS OF ONE-THIRD TO ALBERT BAUMGARTEN, OF SAME PLACE.

COFFEE-MILL.

SPECIFICATION forming part of Letters Patent No. 399,686, dated March 19, 1889.

Application filed December 21, 1888. Serial No. 294,262. (No model.)

To all whom it may concern:

Be it known that we, EDGAR H. MORGAN and CHARLES MORGAN, of Freeport, in the county of Stephenson and State of Illinois, have invented certain new and useful Improvements in Coffee-Mills; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use the same.

Our invention relates to improvements in coffee-mills, and is set forth in this specification, and shown in the accompanying drawings, in which—

Figure 1 is a central vertical section of a mill embodying our improvements, the plane of section being through the line *xx*, Fig. 2. Fig. 2 is a top plan of the cover of the mill, a part of the swinging portion being broken away. Fig. 3 is a horizontal section on the line *yy*, Fig. 1, the view being upward. Fig. 4 is a side view of the central portion of the bridge. Fig. 5 is a section similar to Fig. 1, of a slightly modified construction.

In the drawings, A is the wooden top of a coffee-mill box, and B is a hopper lying below the top and having at its upper edge a horizontal flange, B', lying below the top A, and one or more lugs, B'', entering notches in the top A, and preventing rotation of the hopper. The hopper has an open bottom, from which depends a grinding-shell, B''', and a bridge, C, crosses the opening above the grinding-shell. The bridge is provided with a central vertical cylindrical opening, C', having opposite notches C'' in its walls. The lower faces, C''', of these walls surrounding the opening C' are inclined, as shown in Figs. 1, 3, 4. Above the top and resting thereon is a cover composed of a stationary portion, D, and a swinging part, K, pivoted to the part D and adapted to uncover nearly one-half the hopper, the remaining portion being at all times covered. A vertical tube, D', is formed integrally with the part D at its center, and extends downward through the opening C' in the bridge C. On the lower end of the tube D' are formed two opposite lugs, D'', adapted to pass through the notches C'' in the bridge when the cover

is in proper position, and to pass along the inclined faces C''' of the walls about the opening C' when rotated in the direction indicated by the arrows of Figs. 3, 4. As the lugs D'' pass along the inclined faces C''', the cover D and hopper B are drawn together, clamping the top between them. Notches N are formed at the extremities of the inclined faces, and when the cover is sufficiently rotated they receive the lugs and prevent reverse rotation.

Fig. 5 shows a construction in which the hopper is placed above the top A, instead of below it. The bridge and tube are unchanged, and, as before, the latter is formed integrally with the cover; but the flange B' and the lugs B'' are in this case formed upon the grinding-shell, and a ring, R, is interposed between the hopper and box-top. The parts are connected by the tube D' in precisely the same way as in the form shown in Figs. 1, 2, 3, 4.

What we claim is—

1. The combination, with the top of a coffee-mill box, of a grinding-shell lying below the top and a cover lying above the top, said shell being provided with a diametrical bridge having a central opening and said cover with a central tube adapted to pass through said opening and to lock the parts together when they are rotated with reference to each other.

2. The combination, with the top A, and the hopper B, lying below the top and having the grinding-shell B''', and the bridge C, formed with the central opening, C', and notches C'', of the cover D, resting upon the top and provided with a central tube, D', formed with lugs D'', adapted to pass through the opening in the bridge and to lock the bridge and cover together upon the rotation of the cover with reference to the bridge, substantially as set forth.

In testimony whereof we have signed this specification in the presence of two subscribing witnesses.

EDGAR H. MORGAN.
CHARLES MORGAN.

Witnesses:

J. GOULD,
J. A. CRAIN.