(No Model.)

E. H. & C. MORGAN.

COFFEE MILL.

No. 395,290. Patented Dec. 25, 1888.

Fig. 1.

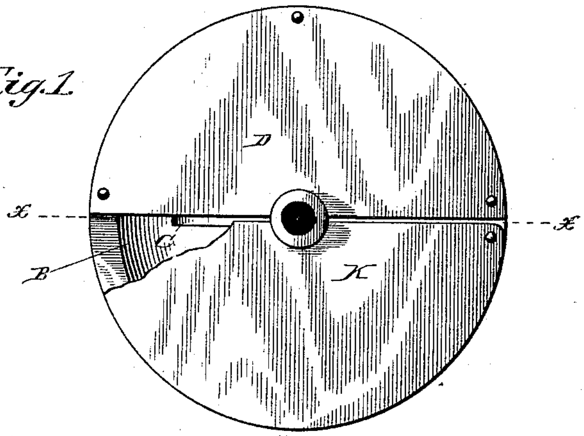


Fig. 2.

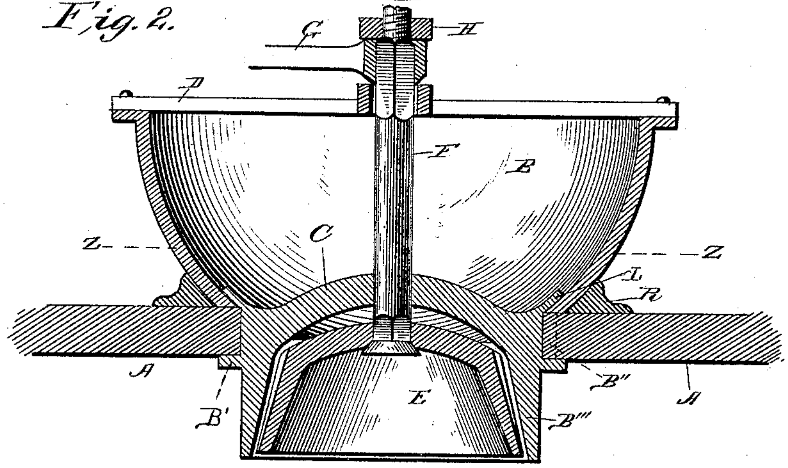
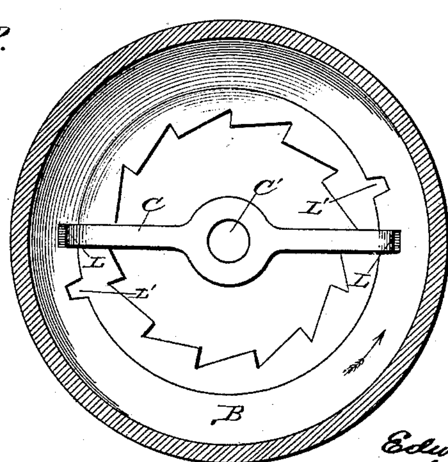


Fig. 3.



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UNITED STATES PATENT OFFICE.

EDGAR H. MORGAN AND CHARLES MORGAN, OF FREEPORT, ILLINOIS.

COFFEE-MILL.

SPECIFICATION forming part of Letters Patent No. 395,290, dated December 25, 1888.

Application filed April 9, 1888. Serial No. 270,121. (No model.)

To all whom it may concern:

Be it known that we, EDGAR H. MORGAN and CHARLES MORGAN, residents 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 fully described and claimed in this specification, and illustrated in the accompanying drawings, wherein—

Figure 1 is a plan of the cover of the mill, partly broken away. Fig. 2 is a vertical section on the line *x x*, Fig. 1. Fig. 3 is a horizontal section on the line *z z*, Fig. 2.

In the drawings, A is the wooden top of a coffee-mill box and B''' is a grinding-shell provided with an outer horizontal flange, B', lying below the top, and one or more lugs, B'', entering corresponding notches in the top A and preventing rotation of the grinding-shell. A bridge, C, extends diametrically across the grinding-shell and has at its middle a vertical cylindrical opening, C'. A hopper, B, lies above the top, and upon it rests a cover consisting of a swinging part, K, and a part, D, rigidly fastened to the upper edge of the hopper and having at its side or in the axis of the mill a suitable bearing for the mill-shaft. This shaft F passes also through the opening C', which forms a bearing for its lower end, and by it is actuated an ordinary grinding-cone, E. The shaft F, cone E, and a crank, G, and adjusting-nut H are all without novelty. The bottom of the hopper is open, and to give upon the top a greater bearing-surface than its edges afford a ring, R, is interposed between the inwardly-curved body of the hopper and the box-top. At each end of the bridge lugs L project outward, and the lower edge of the hopper is provided with corresponding notches, L'. To connect these parts and secure the metallic portions in place in the wooden box the grinding-shell is placed in the position indicated in Fig. 2, the bridge C and the lugs at its ends being passed upward through the opening in the top A. The ring or base R is placed in position about the opening and the hopper is then placed in position in the ring, the notches L' in the lower edge of the hopper being passed downward over the lugs L. The hopper is then rotated in the direction indicated by the arrow in Fig. 3, and as the surface over which the lugs pass is sufficiently inclined to wedge the lugs upward and clamp the top between the hopper and shell, the whole is rigidly secured in place.

Having now fully described and explained our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. The combination, with the wooden top having an opening provided with marginal notches, of a hopper resting upon the top about said opening, a grinding-shell lying below the top and provided with lugs resting in said notches and preventing rotation, with a flange resting against the lower surface of the top, and also with lugs engaging said hopper and binding the top between the shell and hopper, substantially as set forth.

2. The combination, with the notched top A and the hopper B, resting thereon and having notches L' in its lower margin, of the grinding-shell B''', provided with the flange B', lying below the top, with lugs B'', resting in the notches in the top and preventing rotation, and with lugs L, adapted to pass through the notches L' and to engage the hopper when the latter is rotated, substantially as and for the purpose set forth.

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

EDGAR H. MORGAN.
CHARLES MORGAN.

Witnesses:
M. STOSKOPF,
R. H. WILES.