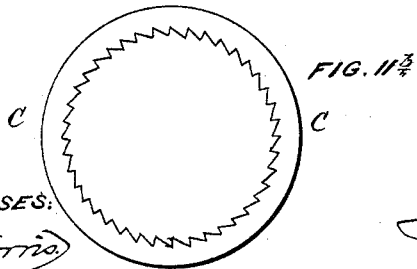
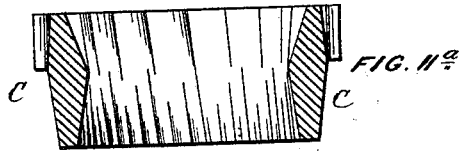
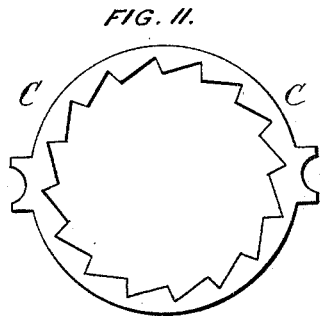
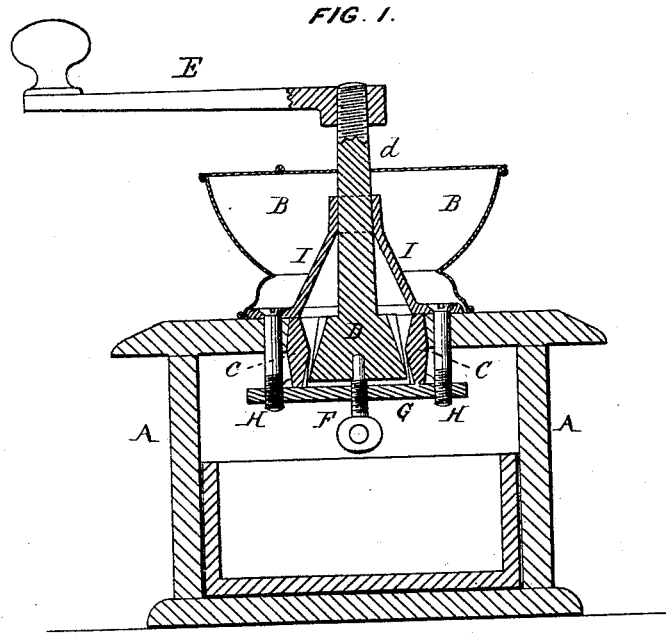


J. R. DEIHM.

COFFEE-MILL.

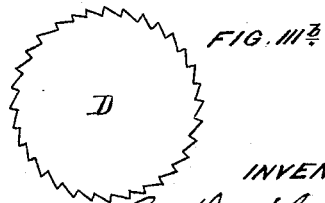
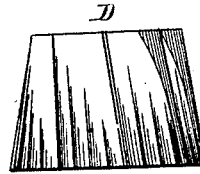
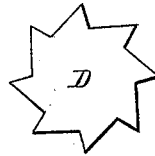
No. 175,946.

Patented April 11, 1876.



WITNESSES:
W. L. Norris
J. S. Coombs

FIG. III.



INVENTOR:
John R. Deihm.
By *James L. Norris,*
Atty.

UNITED STATES PATENT OFFICE.

JOHN R. DEIHM, OF POTTSVILLE, PENNSYLVANIA.

IMPROVEMENT IN COFFEE-MILLS.

Specification forming part of Letters Patent No. **175,946**, dated April 11, 1876; application filed December 3, 1874.

To all whom it may concern:

Be it known that I, JOHN R. DEIHM, of Pottsville, in the county of Schuylkill and State of Pennsylvania, have invented certain new and useful Improvements in Coffee-Mills, of which the following is a specification:

This invention relates to certain improvements in the construction of ordinary coffee-mills; and it consists in an improved combination of devices for securing the bearings of the rotating shaft which carries the truncated grinding-nut and the double-beveled grinding-cylinder in position, and securing the same to the chest, box, or other receptacle, as fully hereinafter set forth.

In the drawings, Figure 1 represents a sectional view of a mill constructed according to my invention. Figs. 2, 2^a, and 2^b represent detached views of the grinding-ring; and Figs. 3, 3^a, and 3^b represent sectional views of the grinding-nut.

A represents the box or chest which supports the mill, and B the hopper. C represents the grinding-ring, constructed of cast-steel, and set in an aperture in the top of the box A, being supported therein by means of a flange on its upper edge. Said grinding-ring on its inner surface is beveled from the upper and lower edges toward the center, as clearly shown in Fig. 2^a, and is provided with inclined teeth or grinders similar to those ordinarily used in spice and coffee mills. D represents the grinding-nut, which is constructed of cast-steel. The said nut is in the shape of a truncated cone, and is cast with a shaft or journal, *d*, to which the handle E is secured. The surface of the nut D is also provided with inclined grinders, as usual. The under side of the nut D is recessed directly at the center so as to set and revolve upon an adjusting-screw, F, which passes through a cross-bar, G, which is hung upon screws H extending downward from the top of the chest or box A. The shaft *d* extends upward through a yoke or support, I, in which it is journaled, and is provided at its upper end with a crank, as usual, by means of which it may be turned. To the top of the hopper is

attached a cover, made in two parts, hinged together. One portion extends over and around the shaft *d*, the other portion falling to one side of said shaft, so as to be freely opened or closed. The yoke or support I is formed with an annular base of such size as to fit upon the upper edge of the grinding-cylinder C and extend sufficient distance around the outer wall of the same to provide for the apertures through which the screws H are inserted. Said screws pass downward through suitable apertures in the top of the chest, and gear into the threaded apertures of the cross-bar G, which sets under the lower edge of the grinding-cylinder. The whole of the working parts of the mill, as thus constructed, are accurately and securely held together and secured to the chest or box.

The advantages of my improved mill will be apparent. The grinding parts being made of cast-steel, will hardly be affected by the wear to which such mills are ordinarily subjected, and hence the durability of the apparatus will be materially increased.

I am aware that the grinding burr and ring of flour-mills have been provided with separate and independent grinding-teeth of cast-steel, but such are difficult and expensive of construction, and, moreover, is not my invention.

What I claim is—

In a coffee-mill, the combination of the yoke I, provided with an annular base, the nut D, and its journal *d*, and the grinding-ring C, the whole being secured together and attached to the top of the box or chest by means of the screws H setting through the annular base of the yoke I and through suitable apertures in the top of the box and gearing into the threaded apertures in the cross-bar G setting against the lower edge of the grinding-cylinder, substantially as described.

In testimony that I claim the foregoing I have hereunto set my hand.

JOHN R. DEIHM.

Witnesses:

JAMES B. REED,
MORGAN REED.