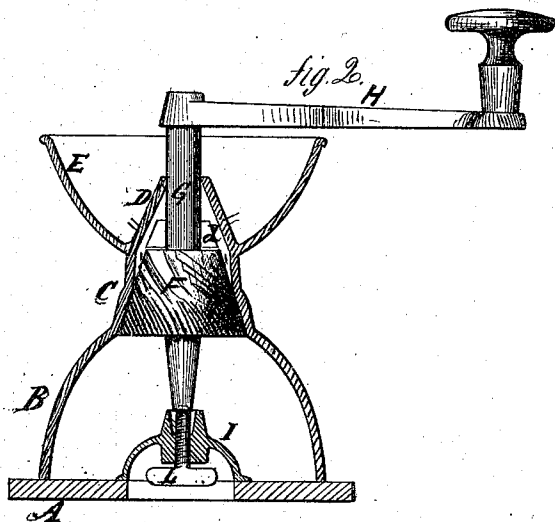
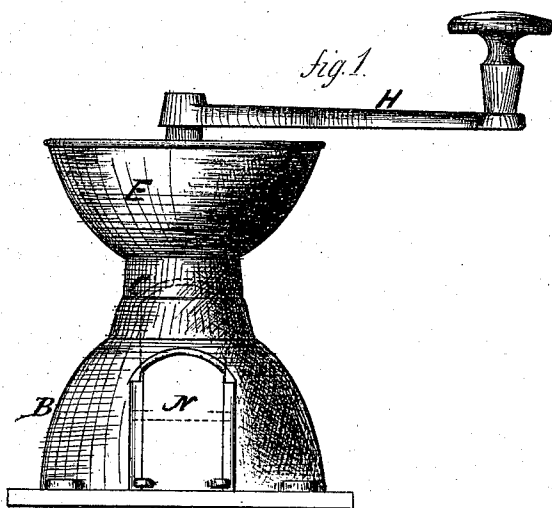


T. W. BROWN.
COFFEE MILL.

No. 105,545.

Patented July 19, 1870.



Witnesses
J. H. Shumway
A. J. Tibbits

Thomas W. Brown
Inventor
By his Attorney,
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United States Patent Office.

THOMAS W. BROWN, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO CHARLES PARKER, OF MERIDEN, CONNECTICUT.

Letters Patent No. 105,545, dated July 19, 1870.

IMPROVED COFFEE-MILL.

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, THOMAS W. BROWN, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new Improvement in Coffee-Mills; and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in

Figure 1, a side view, and in

Figure 2, a vertical central section.

This invention relates to an improvement in that class of grinding mills commonly used for grinding coffee, the object being a cheap and durable mill; and

The invention consists in forming the base or receptacle of the mill, the runner-chamber, and center support in the hopper, in one and the same piece, whether the hopper be also cast thereon or formed in an independent piece.

A is the bottom, to which the mill is fixed.

B, the base or receiving-box.

C, the runner-chamber.

D, the central support, which extends up into the hopper E, and with one or more recesses, *d*, there-through, to permit the material to be ground to pass into the runner-chamber.

The base B, runner-chamber C, and central support D, are cast in one and the same piece, and, by preference, I cast the hopper on the same piece.

The central support D is formed of conical shape, so as to form a chamber above the runner F, the said

runner being fixed to a spindle, G, to which a crank, H, is applied, by means of which the runner is turned.

I is a step, fixed to the base, so as to form an opening upon the underside, within which the head L of the adjusting-screw may stand, so that, from the underside of the mill, the adjusting-screw may be turned.

Upon the end of the adjusting-screw the spindle G rests, as seen in fig. 2. This arrangement of the step obviates a difficulty experienced in the adjustment of vertical mills, inasmuch as there is no liability to get out of order, and is easily accessible.

I form an opening through one side of the base, into which I fix a slide, *n*, as seen in fig. 1, through which the material ground may be removed.

The runner and runner-chamber are constructed in the usual manner, but, by combining the three parts, B, C, and D, in one and the same piece of casting, the construction is very much simplified, and, consequently, the cost of manufacture greatly reduced, and still more so when the hopper is cast in the same piece with the parts B, C, and D. In some cases a brass or copper hopper is preferred to iron, and in such cases the hopper may be formed separately, and secured to the runner-chamber.

I claim as my invention—

The combination of the base B, runner-chamber C, and central support D, cast in one and the same piece of metal, with the vertical runner F, and either with or without the hopper E.

Witnesses:

THOS. F. BRENT,
N. H. CAMP.

THOMAS W. BROWN.