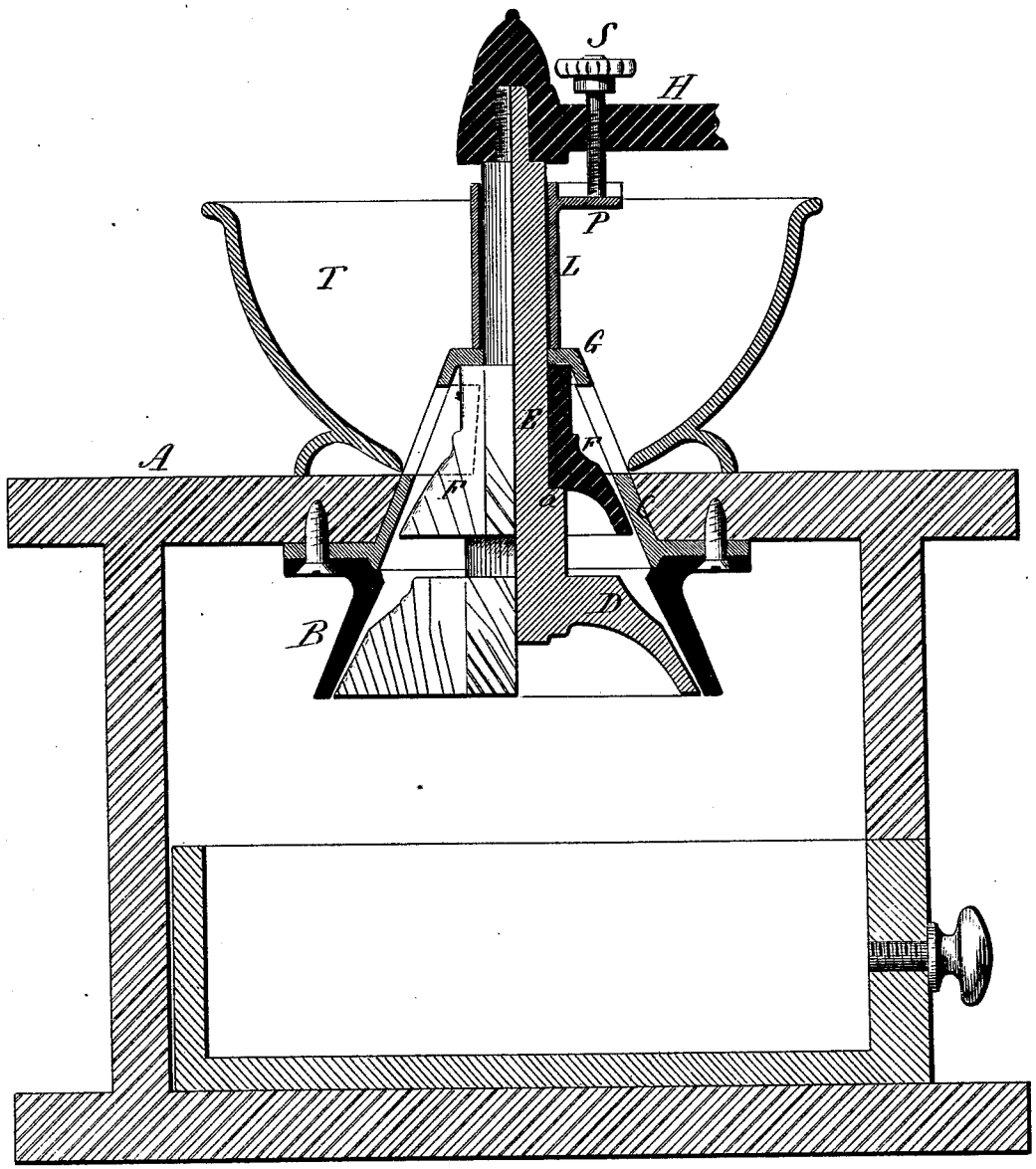
D. W. PARKER.

COFFEE MILL.

No. 187,898. Patented Feb. 27, 1877.



Witnesses.
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UNITED STATES PATENT OFFICE.

DEXTER W. PARKER, OF MERIDEN, CONNECTICUT, ASSIGNOR TO CHARLES PARKER, OF SAME PLACE.

IMPROVEMENT IN COFFEE-MILLS.

Specification forming part of Letters Patent No. **187,898**, dated February 27, 1877; application filed November 22, 1876.

To all whom it may concern:

Be it known that I, DEXTER W. PARKER, of Meriden, in the county of New Haven and State of Connecticut, 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 a vertical central section.

This invention relates to an improvement in that class of grinding-mills commonly known as "box or hand mills," and in which the runners are mounted on a vertical spindle provided with a crank for turning in a horizontal plane, and specially to that class in which two runners are employed with the different shells, the upper as a cracker and the lower as a grinder.

In this class of mills the runners have usually been formed upon independent spindles, the two spindles coupled together and supported upon a bridge below, the bridge suspended from the top of the box, and adjusted through the rods by which the bridge is suspended.

The object of this invention is to unite the two runners upon a single spindle, whereby the bridge may be dispensed with, and the adjustment made at the upper end of the spindle; and it consists in constructing or attaching the lower or grinding runner and the cracker to a single spindle, which extends up through a bearing above, and on which the said spindle is made adjustable vertically, to raise or lower the runners, as the case may be.

A represents the box, which is of the usual construction; B, the lower or grinding shell; C, the upper or cracker shell, secured together and to the top of the box in the usual manner. D is the lower or grinding runner, formed upon, or preferably cast as a part of, the vertical spindle E. F is the upper or cracker runner, which is fitted to the spindle E, and relatively located to the grinding-runner by a shoulder, *a*, so that a single spindle serves for both the cracking and grinding runners. This spindle passes up vertically through the support or bearing G, and to its upper end the crank H is attached, in the usual manner. Around the upper end of the spindle, and resting on the bearing G, is a sleeve, L, from which projects an arm, P, and through the crank an adjusting-screw, S, passes, its lower end resting upon the arm P. By turning this screw in one direction or the other the crank is raised or lowered relatively to the upper end of the sleeve L, and accordingly raises or lowers both the runners.

The usual hopper T is provided, through which the material to be ground passes, first to the cracker, and then to the runner, in the usual manner.

By this construction the usual adjusting-bridge beneath is avoided, and a more convenient central adjustment made available.

I claim—

1. In a double-runner grinding-mill, the lower or grinding runner formed solid upon the spindle, which extends through the cracker-runner, the said cracker-runner secured to the spindle in its proper relative position to the grinder, substantially as specified.

2. In a double-runner grinding-mill, the lower or grinding runner formed solid upon the spindle, which extends through the cracker-runner, the said cracker-runner secured to the spindle in its proper relative position to the grinder, combined with a crank upon the upper end of the spindle, and an adjusting-screw for adjusting the elevation of the spindle, substantially as specified.

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Witnesses:

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