MILL FOR GRINDING PEANUTS FOR BUTTER.
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To all whom it may concern:

Be it known that I, AMBROSE W. STRAUB, a citizen of United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Mills for Grinding Peanuts for Butter; and I 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 appertains to make and use the same.

This invention relates to improvements in portable mills adapted for grinding peanuts, used in the manufacturing of peanut-butter, and all kinds of hard, friable, tough, and moist substances; and the objects of my improvement are, first, to provide a casing, a detachable yoke, a crushing roll or cylinder, one end of which is journaled in the casing and the opposite end thereof in a yoke, a stationary grinding-disk, and a rotary disk, the rotary disk and cylinder having means for interlocking the two together, devices for adjusting the crushing roll or cylinder and for clamping the antifriction devices in place, and, second, to construct a casing and supporting-stand having a base provided with a lip and a hinged clamp for securing the casing and standard to a support. I attain these objects by the construction illustrated in the accompanying drawings, in which—

Figure 1 is a longitudinal section through the casing, showing the crushing-cylinder in elevation and the rotary disk and clamping devices in section. Fig. 2 is a section through the casing on the line x x of Fig. 1 looking in the direction of the arrows. Fig. 3 is a view in elevation of the stationary disk broken away, and Fig. 4 is a view in elevation of the stationary disk broken away, and Fig. 5 is a view in elevation of one of the grinding-disks.

Similar characters refer to like parts throughout the several views.

The letter A represents the grinding-casing, to the larger end of which is secured the stationary disk B, and through said larger end of the casing is the opening C. In the other and smaller end of the said casing is the opening or bearing in which the crushing roll or cylinder E revolves, and on the said projecting end of the said crushing-cylinder E is secured the handle F, fixed to the said cylinder by the thumb-nut G. The said crushing-cylinder E has secured thereon or cast integral therewith the crushing part H of the cylinder E, provided with cutting and crushing teeth i i. The opposite end of the said cylinder E and crushing and cutting part or portion H project through the opening C in the casing of the mill, and the part H is provided with mortises or recesses k k, in which mortises or recesses lgs L upon the grinding-face of the rotary grinding-disk M are inserted, thereby holding the rotary disk to the crushing portion H of the cylinder E, and upon the non-grinding face of the revolving disk M the nut or washer N and the split pin O holds it (the revolving disk) upon the cylinder E, the latter pin O passing through the center of the cylinder.

By means of the yoke P the cylinder E is journaled in the enlarged end of the grinding-case. The said yoke P is cast or bent at right angles to the main or body portion thereof, is securely fastened to the enlarged flanged end of the grinding-case by means of the screw-threaded bolt T and the screw-threaded hand-nut U, clamping the said yoke to the end of the case.

The letter Q refers to the opening or recess in the horizontal body portion of the yoke P, in which one end of the cylinder E is journaled, and leading upward from the said recess and opening into the journal-bearing the oil-conduit R permits the oil to pass to the surface of the cylinder, thereby lubricating the same. In line with the said opening or recess Q in the horizontal body portion of the yoke P is the opening O, extending entirely through the body portion of the yoke, in which opening O the hand screw-threaded bolt T is inserted, the inner end of which bears upon the antifriction-ball-bearing box y, thereby pressing the said box against the end of the revolving cylinder E, overcoming any friction that may take place or be caused by the end thrust of the said cylinder.

The bolt T is screw-threaded throughout its entire length. U is a screw-threaded hand-nut through which the said bolt T is passed. The said hand-nut clamps the outer face of the horizontal body portion of the yoke P.
and the inner end of said bolt T when screwed home, pressing the anti-ball-bearing box firmly against the end of the revolving cylinder E.

P is a removable segmental housing provided with tenons, which, together with the yoke P, protects the grinding-disks.

The stationary grinding-disk is provided with a tooth-like surface a upon the grinding-face thereof and having upon said grinding-surface the lozenge or coffin shaped flights b b and having also perforations c therein, through which perforations or holes screw-threaded bolts d securely fasten the stationary disk to the enlarged flanged head of the grinding-case.

The rotary grinding-disk M is provided with cutting and grinding toothed grooves and triangular-shaped flights, and the said rotary disk has projecting from the grinding surface or face thereof two lugs L L, located diametrically opposite each other, which are adapted to be inserted into the mortises or recesses in one end of the crushing part H of the cylinder E.

The numeral 1 represents the vertical standard, made integral or cast with the grinding-case A. Preferably cast with the standard is the horizontal portion 2 of the clamping device. The said portion 2 is made integral with the projecting lip 3. At the juncture of the standard 1 and the horizontal portion 2 of the clamping device are the projecting ears 4, having perforations therein through which the pivoting bolt 5 is inserted and also through a hole in one end of the hinged clamp 6. The lip 3 of the clamping device is made integral, preferably, with the grinding-case A and the standard 1 and horizontal portion 2 of the clamping device.

In the free end of the hinged clamp 6 I provide a screw-threaded hole through which the double-headed threaded bolt 7 is screwed, the said threaded bolt having upon one end thereof a flat head 8, and at the other end it is provided with flanges 9, by which the operator may readily clamp the headed end of the bolt to the under side of a table 10, thereby securely fastening the horizontal portion 2 of the clamping device and the projecting lip 3, respectively, to the upper surface and vertical edge of a table or to any horizontal projecting stationary part of the building in which the mill may be set up for grinding desirable material.

The operation of this invention will be readily understood from the foregoing description, taken in connection with the drawings hereto appended.

Having described my invention, what I claim, and desire to secure by Letters Patent, is:

1. The casing, a detachable yoke connected with the casing, a crushing-cylinder having one end journaled in the casing and the other in the detachable yoke, a stationary grinding disk, a rotary grinding-disk on the cylinder-journal, means to interlock the rotary disk and cylinder and means carried by the detachable yoke to support and to adjust the cylinder-journal and rotary disk consisting of ball-bearings, adjusting-bolt, T, and clamping-nut, U, for locking the bolt in.

2. The clamp for mill-casings comprising the supporting-standard having a base formed with upwardly-projecting ears, and at its outer edge with a downwardly-projecting lip, the double-L-formed clamp member, 6, hinged at its upper end to said ears and the set-screw, 7, engaging the angle and lower end of said clamp member in line with its hinge.

In testimony whereof I have hereunto affixed my signature in presence of two witnesses.

AMBROSE W. STRAUB.

Witnesses:
CHAS. F. CROSS,
THEO. H. MCCALLA.