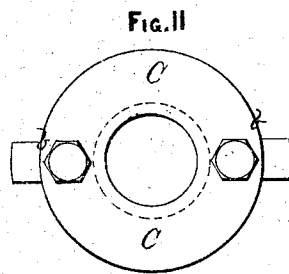
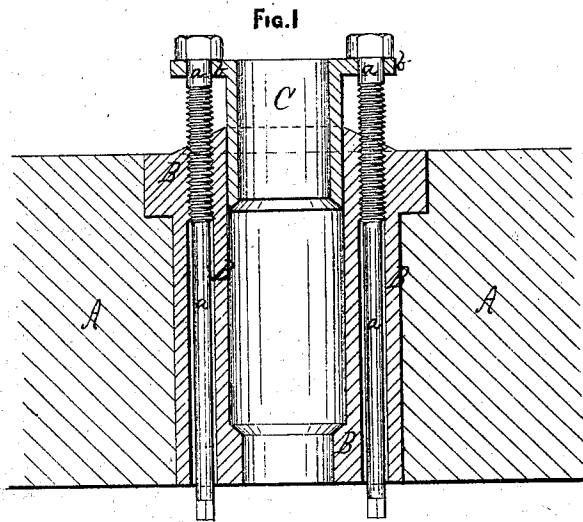


C. GILBERT.

Manufacture of Starch.

No. 135,904.

Patented Feb. 18, 1873.



WITNESSES.

F. P. Drake,
C. N. Woodward.

Colgate Gilbert.

INVENTOR, BY
Burke Fraser & Co.
attys.

UNITED STATES PATENT OFFICE.

COLGATE GILBERT, OF BUFFALO, NEW YORK.

IMPROVEMENT IN THE MANUFACTURE OF STARCH.

Specification forming part of Letters Patent No. 135,904, dated February 18, 1873.

To all whom it may concern:

Be it known that I, COLGATE GILBERT, of Buffalo, in the county of Erie and State of New York, have invented certain new and useful Improvements in Starch-Mill Machinery, of which the following is a specification:

Nature and Object of the Invention.

The object of this invention is to permit the adjustment of the packing, &c., around the spindle of the bed-stone for wet-grinding in starch-mills while the mill is in operation; and the invention consists in providing two or more elongated adjusting-rods, passing through a follower and entirely through the bushing, coming out at the bottom, where, by means of a wrench or key, the adjustment can be made, as hereinafter fully set forth.

In the drawing, Figure 1 is a vertical cross-section of the stone, bushing, and follower, showing the adjusting screw-rods. Fig. 2 is a plan view.

A represents the stone; B, the bushing of the same; and C, the follower. *a a* are the adjusting-rods formed with square heads and a screw-thread on the upper part for a short distance, the ends terminating in such a shape as to permit the setting on of a key or wrench. These adjusting-rods first pass through the rim *b* of the follower or gland C, thence outside the follower into the bushing B, which is made at the top and extending a short distance down (of metal) with a screw-thread in it to engage the screw part of the rod *a*. The rest of the rod is made smooth, and comes out

underneath the bed-stone, as before stated. The object of the follower is to press down hard the packing placed in the space between the spindle and bushing.

It is common to adjust the follower and packing by various devices, but all have to stop the working of the mill to do so; but by elongating the screw-rods and passing them entirely through the stone an important advantage is gained by more readily adjusting, and doing so at any moment, while the mill is in operation.

In other devices, after the mill is stopped, the runner has to be taken off to get at the tops of the ordinary adjusting-screws.

Mine, by a little attention, anticipates as well as prevents the liability to leak, by keeping the rods constantly tightened.

Claim.

I claim—

The follower, packing, &c., of a starch-mill, adjusted as herein described, by means of the elongated screw-rods *a a* passing through the follower C and entirely through the bushing B, so that the follower can be drawn down and the packing thereby tightened while the mill is in operation, as hereinbefore fully set forth.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

COLGATE GILBERT.

Witnesses:

J. R. DRAKE,

C. N. WOODWARD.