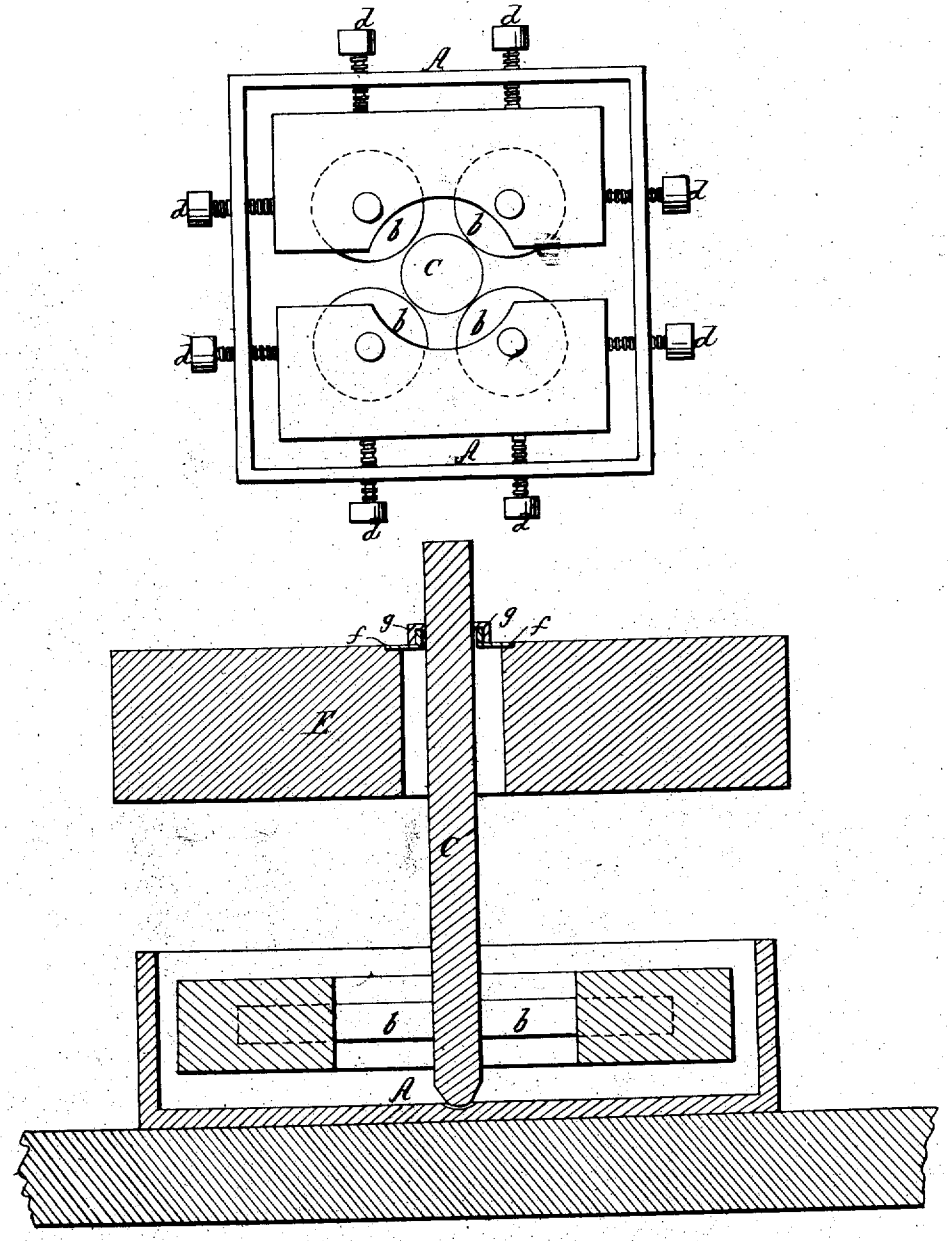
8060X

F. Freely.

Mill Spindle.

Patented Mar. 10, 1834.



74

8060X

March 10. 1834

Frederick Fredly of Logan Township Pennsylvania

Letters Patent

The Schedule referred to in these Letters Patent and making part of the Same containing a description in the words of the said Frederick Fredly himself of his improvement being a mode of lessening the friction on mill Spindles, and keeping them perpendicular whilst running without being bushed entitled "Fredly's improved mill Spindles"

Be it Known that I Frederick Fredly of Logan Township Centre County, State of Pennsylvania have invented an improvement in the useful arts, being a mode of lessening the friction on Mill Spindles, and keeping them perpendicular whilst running, without the necessity of bushing, entitled "Fredly's improved mill Spindles" which is described.

The Spindle may be made in the common form, or in any other most convenient, except that there is a cylindrical projection on it turned true, and below the bed stone, against which the pulleys to be hereafter described turn.

There are three or more pulleys, or rollers about 18 inches diameter turned true, and revolving on Steel axles or cast metal supports in suitable oil cups. These embrace the Spindle closely at equal distances apart, and work against the above mentioned projection turned on the Spindle.

Upon the bed stone is laid an iron plate, having a flange turned upwards about 3/4 of an inch, over this flange or projection is placed a collar having a flange turning downwards of a greater diameter than the one turned upwards passing round the spindle and made fast to it and over the flange of the plate, turning freely round but so close as to prevent any grain from entering. Balls are placed in a cavity in the bottom of the Spindles or gudgeons to be

vent them wearing down. By the above arrangement the spindle is kept upright, and more perfectly true, the collar & flange prevent the grain flowing through the opening in the bed, which opening has been found necessary to be left open and the spindle covered by the before mentioned collar. The Inventor here claimed and desired to be secured by Letters Patent confining in the use of three or more pulleys or rollers placed round the spindle to keep it upright, leaving also as a bush and prevents wear and friction to the spindle, also in the use of the collar and flange on the plate to prevent the grain flowing thro' the eye of the bed.

For a further illustration of my invention I refer to the model and drawing of the same deposited in the Patent Office. In testimony whereof I have hereunto subscribed my name this 19th day of February 1834.

Witnesses
E. Fairbanks
W. P. Elliott

Frederick Fradly

(Patented 11 March 1834)

Drawing