

J. PEIRCE.
Mill Spindle.

No. 5,298.

Patented Sept. 18, 1847.

fig. 1.

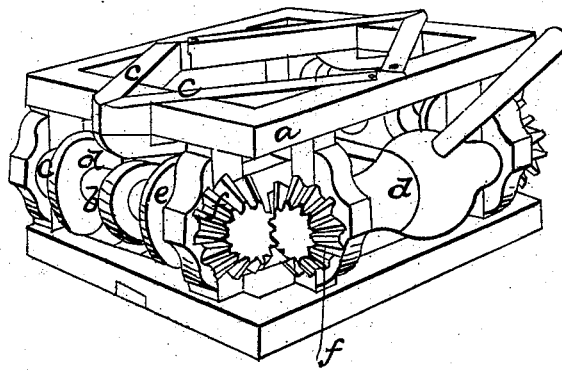
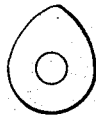


fig. 2



INVENTOR
Joseph Peirce

UNITED STATES PATENT OFFICE.

JOSEPH PEIRCE, OF BUFFALO, NEW YORK.

GRINDING-MILL.

Specification of Letters Patent No. 5,298, dated September 18, 1847.

To all whom it may concern:

Be it known that I, JOSEPH PEIRCE, of the city of Buffalo, in the State of New York, have invented a new and Improved Mode of Elevating and Letting Down the Bridge Trees and Shoes of Flouring and Grist Mills Simultaneously when Starting and Stopping Them; and I do hereby declare that the following is a full and exact description.

The nature of my invention consists in providing a shaft or shafts having upon them one or more eccentrics and one or more pulleys composed of metal wood other materials or combinations of them placed under the stone-bridge-trees or bridge-trees of all the spindles that are attached to the same motive power in the mill or upon levers upon which the traversing pins are placed which traverse through the bridge-tree upon which the lower end, point step or foot of the stone-spindles stand whether the stones are placed in line or on a square frame or hearse. If on a square frame the shaft may be carried round the square frame by means of miter or bevel wheels. The controlling power of this shaft to any part in any story of the mill that will best suit the miller to stand to let on or shut off the water or steam. Upon this shaft are placed pulleys with straps attached to each of the feed strings of the shoes in such a manner that when the shaft is turned by a lever wheel or rack and pinion or other means the eccentric circles raise the bridge trees and the straps on the pulleys raise the shoes simultaneously, so that the feed is let on at the same time that the stones are let down when the mill is

started and the feed is taken off at the time that the stones are raised when the mill is stopped. But when the mill is running the eccentrics lie back clear of the bridge-trees and the straps upon the pulleys are loose, leaving the stones and feed as they were previous to the stopping and starting the mill and to be regulated in the usual way by the usual means. This removes the danger of straining the machinery and causing breaks which are liable to occur in the old way when one man attempts to handle several stones and it prevents the dulling of the stones and other injury from their coming together before their feed is let on or stopped. Thus economizing the grain time and labor and benefiting the flour.

What I claim as my invention and desire to secure by Letters Patent is—

The application by machinery of eccentrics upon shafts to the bridge-trees of the spindles or the levers of traversing pins upon which the point, step or foot of stone-spindles stand and of straps connecting the pulleys upon the shafts to the shoes of the mill hopper so that by rotating the shafts by levers wheels or pulleys the eccentrics elevate and let down the bridge-trees and shoes simultaneously and conveniently upon starting and stopping the mills.

In witness whereof I have hereunto set my hand and seal this sixth day of September 1847.

JOSEPH PEIRCE. [L. s.]

In presence of—
HUGH O. BEIRNE,
ALVAH HAND.