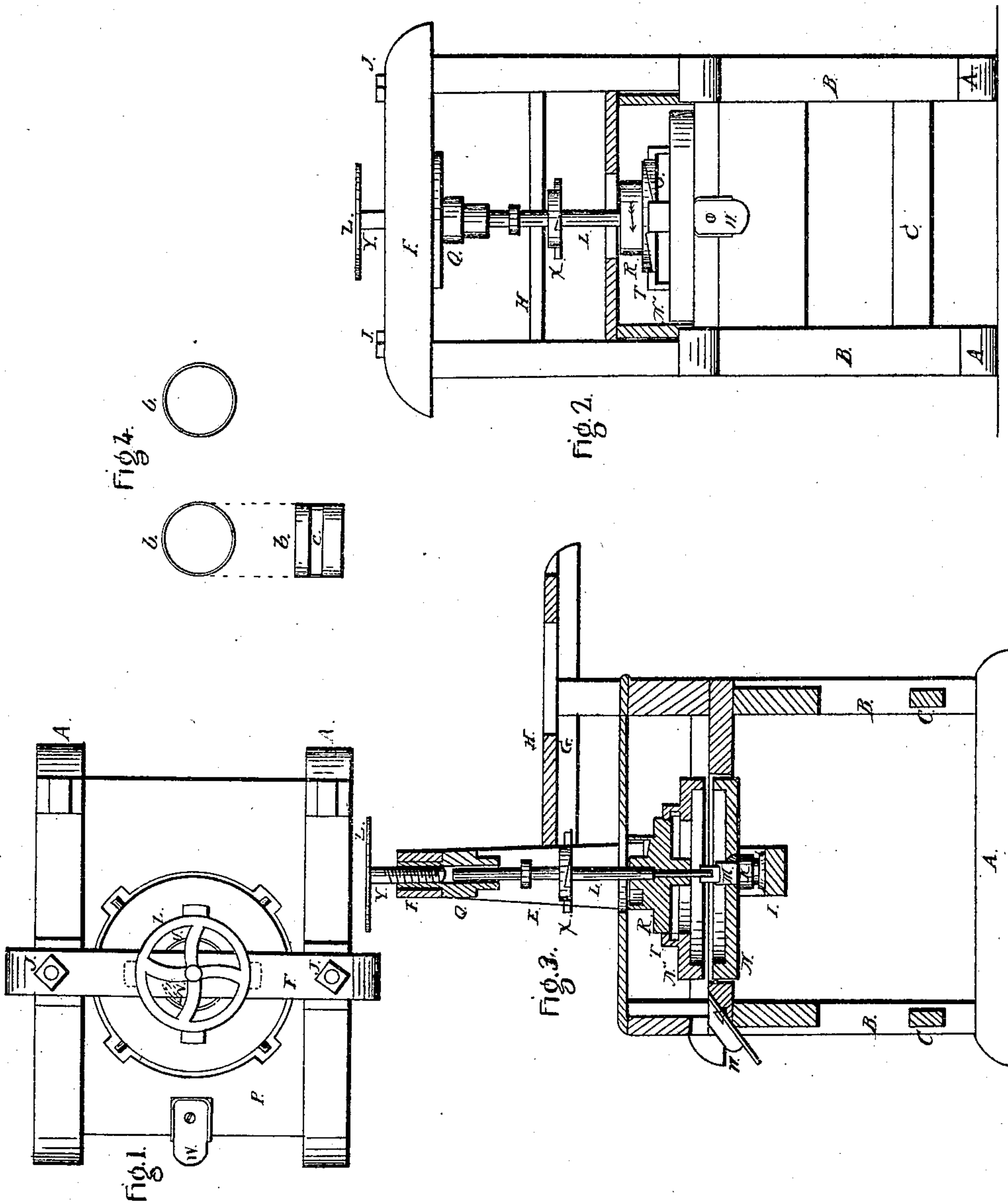


A. H. WAGNER.
MILL.

No. 29,422.

Patented July 31, 1860.



UNITED STATES PATENT OFFICE.

AUSBENT H. WAGNER, OF STAUNTON, VIRGINIA.

MILL.

Specification of Letters Patent No. 29,422, dated July 31, 1860.

To all whom it may concern:

Be it known that I, AUSBENT H. WAGNER, of Staunton, in the county of Augusta and State of Virginia, have invented certain new and useful Improvements in Mills for Grinding; and I do hereby declare that the same are described and represented in the following specifications and drawings.

To enable others skilled in the art to make and use my improvements I will proceed to describe their construction and operation referring to the drawings in which the same letters indicate like parts in each of the figures.

Figure 1, is a plan or top view with a part of the case removed. Fig. 2, is an elevation with the case in place, the case being shown in section. Fig. 3, is a section on the line *h, h*, of Fig. 1.

The nature of my invention and improvements in mills for grinding consists in the construction and arrangement of the devices described and claimed in the following specification and represented in the drawings.

In the accompanying drawings the frame of the mill is represented as consisting of the following parts to wit: sills *A, A*, posts *B, B*, connected by the bars *C, C*, and rails *D, D*, standards *E, E*, supporting top-bar *F*, and the top rails *G*, supporting the platform *H*; the several parts above mentioned being firmly fastened together to make a strong frame, to which the other parts of the mill are fastened or connected.

The ends of the bridge *I*, are supported by the bolts *J, J*, which extend up in the standards *E, E*, and through the top bar *F*, as shown in the drawing. The metal step *K*, is fastened on the top of the bridge *I*, and its upper end is perforated for the lower end of the shaft *L*, to turn in. The step *K*, is made with a collar *M*, around it which collar is made hemispherical on its upper side, to support the lower metal case *N*, into which case the lower and stationary mill stone is cemented. The case *N*, is so fitted to the collar that it will vibrate freely to a limited extent so as to accommodate the upper surface of the stationary to the running stone. The case *N*, has several lugs on it which project into scores in the platform *P*, to prevent the case and stone from turning.

The upper end of the shaft *L*, turns in the box *Q*, fastened to the top bar *F*, which shaft

has a collar, *R*, fastened to it to carry the upper case *N'* into which case the running stone is cemented, so as to be turned by the collar and shaft. The collar *R*, has a series of wedge shaped lugs *S*, on its periphery which are arranged to catch under a series of hook shaped lugs *T*, on the top of the case *N'*, so as to lock the two together firmly when the collar is turned in the direction indicated by the arrow and in which direction it moves the grinding stone. The collar *R*, has a rim *U*, on its upper surface forming a vessel to receive the grain to be ground, and there is an opening *V*, inside the rim through the collar for the grain to pass down between the stones to be ground; and the meal escapes through the spout *W*. The collar *X*, is fastened to the shaft *L*, and is provided with a series of wedge shaped lugs on its periphery to lock it to a pulley or gear by which the mill is to be turned.

The journals of the shaft *L*, are so arranged in the step *K*, and box *Q*, that the grain or meal between the stones shall support the weight of the upper stone with its case collar and shaft; and the screw *Y*, is arranged in the upper end of the box *Q*, and provided with a hand wheel *Z*, by which the miller may turn the screw and force the upper stone down and graduate the fineness of the meal ground by the mill.

Fig. 4, is a plan and elevation of a hoop *b*, fastened in the eye of the bed stone so that the lower sides of the slots *c*, will be just even with the face of the bed stone. The object and purpose of this hoop is to receive the grain and supply it through the slots *c*, between the stones and prevent the grain from catching, and hanging, in the eye of the running stone or prevent the mill from chocking in the feeding.

I believe I have described and represented my improvements in mills for grinding grain, etc., so as to enable any person skilled in the art to make and use them.

I will now state what I claim and desire to secure by Letters Patent to wit.

The combination of the hoop *b*, collar *R*, and case *N'*, the whole being constructed and arranged substantially as described.

AUSBENT H. WAGNER.

Witnesses:

B. F. FOINT,
WILLIAM BLYTHE.