G. SELSOR.

Grinding-Mill.

No. 167,573. Patented Sept. 7, 1875.

FIG. 1.

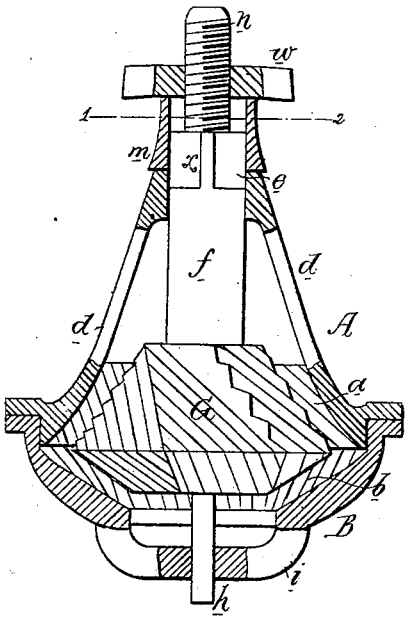
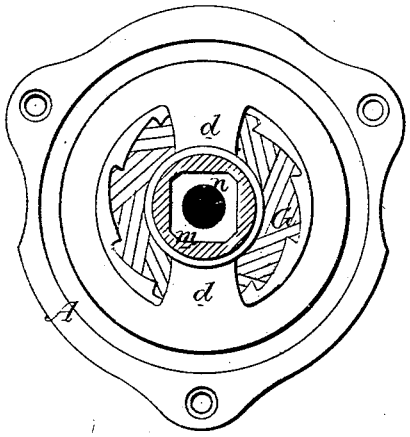


FIG. 2.



Witnesses,
Harry Smith
Hubert Howson

George Selsor
by his Attorneys
Howson and Sons.

UNITED STATES PATENT OFFICE.

GEORGE SELSOR, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN GRINDING-MILLS.

Specification forming part of Letters Patent No. **167,573**, dated September 7, 1875; application filed March 24, 1875.

To all whom it may concern:

Be it known that I, GEORGE SELSOR, of Philadelphia, Pennsylvania, have invented certain Improvements in Grinding-Mills, of which the following is a specification:

The object of my invention is to provide a grinding-mill with such means of adjusting the burr within the shell that the former will retain the position to which it has been adjusted until an alteration in the position of the burr is required; and this object I attain in the manner which I will now proceed to describe, reference being had to the accompanying drawing, in which—

Figure 1 is a vertical section of the shell of a coffee-mill with the shell in elevation, and Fig. 2 a sectional plan on the line 1 2, Fig. 1.

The shell of the mill consists of two parts, A and B, the former having the annular tapering grinding-surface *a*, with comparatively coarse teeth, and the lower portion B having the annular tapering grinding-surface *b* with finer teeth. Forming part of the upper portion A of the shell are two arms, *d d*, united at their upper ends by the bearing *e* of the spindle *f* of the burr C, from the lower end of which projects a pin, *h*, arranged to turn in the cross-piece *i* of the lower portion B of the shell. The upper portion *x* of the spindle has one or more flat sides (four, in the present instance) formed on it, and a thimble, *m*, is so adapted to this upper portion of the spindle that the latter can slide freely in the said thimble, which cannot turn independently of the spindle. A screw, *n*, projects from the top of the spindle, and on this screw is a nut, *w*, which, bearing on the thimble, determines the vertical position of the burr within the shell.

The handle by which the burr has to be turned is adapted to the screw in the usual manner.

The thimble being in contact with the bearing *e*, and the nut in contact with the thimble, as shown in Fig. 1, the latter is caused to act as a jam-nut, and the burr cannot be disturbed from the position to which it has been adjusted within the shell by the turning of the burr, as both thimble and nut revolve with the same; but the burr can be readily raised or lowered, as circumstances require, by the manipulation of the nut.

I do not desire to claim, broadly, the interposition of a washer or thimble, *m*, made to revolve with the spindle between the bearing of the said spindle and an adjusting-nut; but

I claim as my invention—

The square or other suitably shaped portion *x* of the spindle, the thimble *m*, adapted to and having depth sufficient to permit the adjustment of the said square portion of the spindle, and the adjusting-nut *w*, adapted to a screw, *n*, on the spindle, all as and for the purpose set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

GEO. SELSOR.

Witnesses:

HUBERT HOWSON,

HARRY SMITH.