

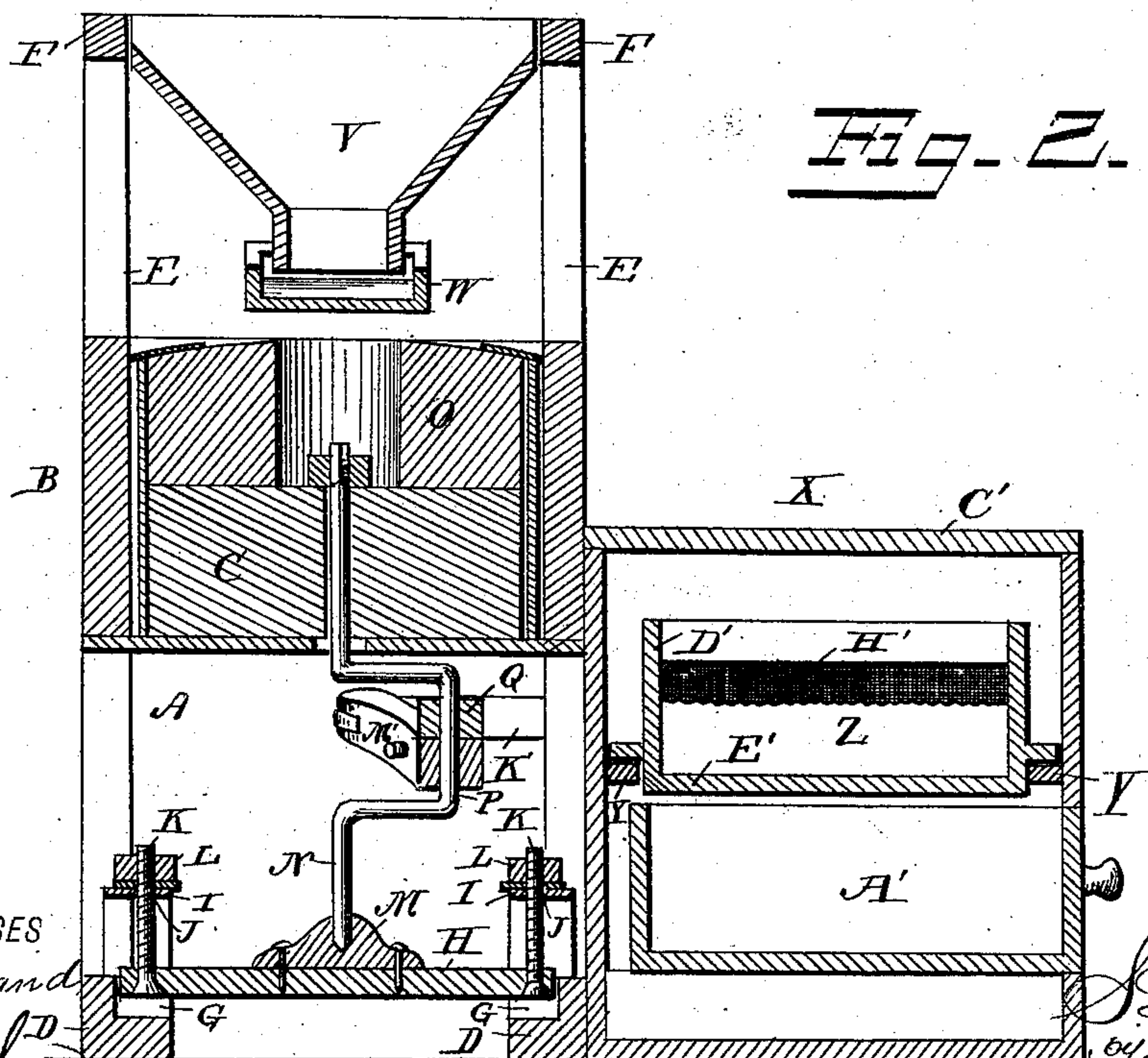
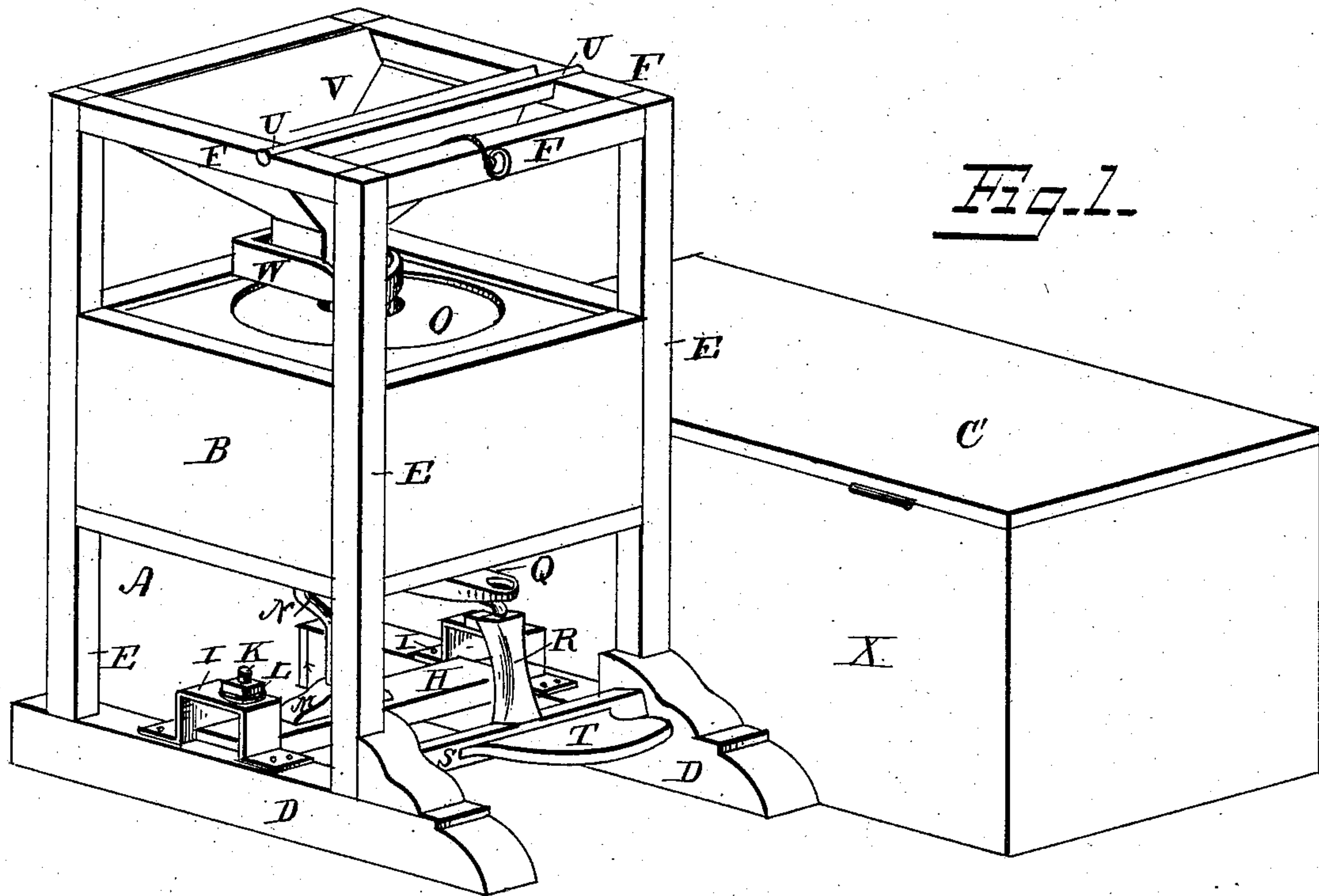
(No Model.)

2 Sheets—Sheet 1.

S. LUCATS.
GRINDING MILL.

No. 287,839.

Patented Nov. 6, 1883.



WITNESSES
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Attorneys

(No Model.)

2 Sheets—Sheet 2.

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Fig. 3.

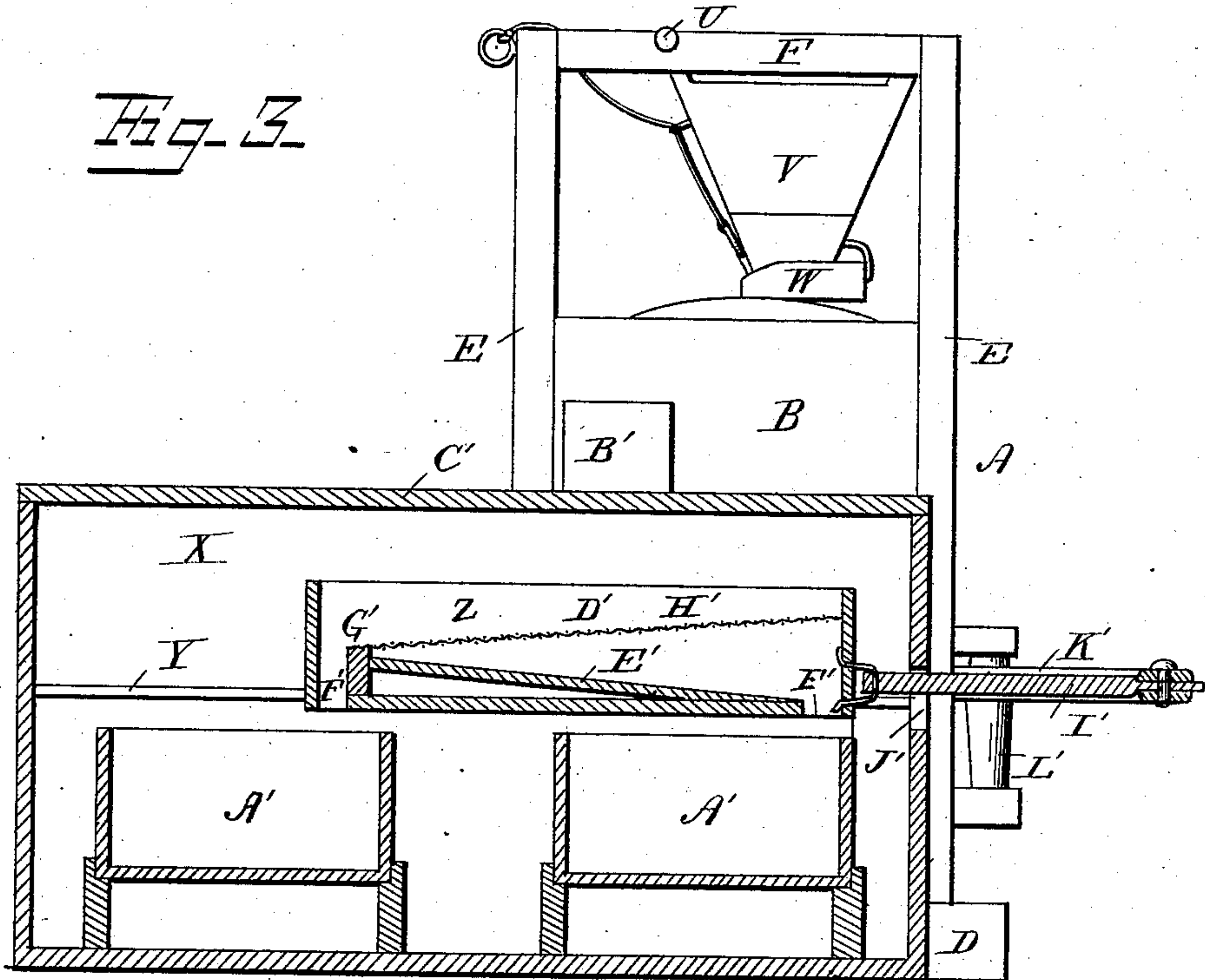


Fig. 4.

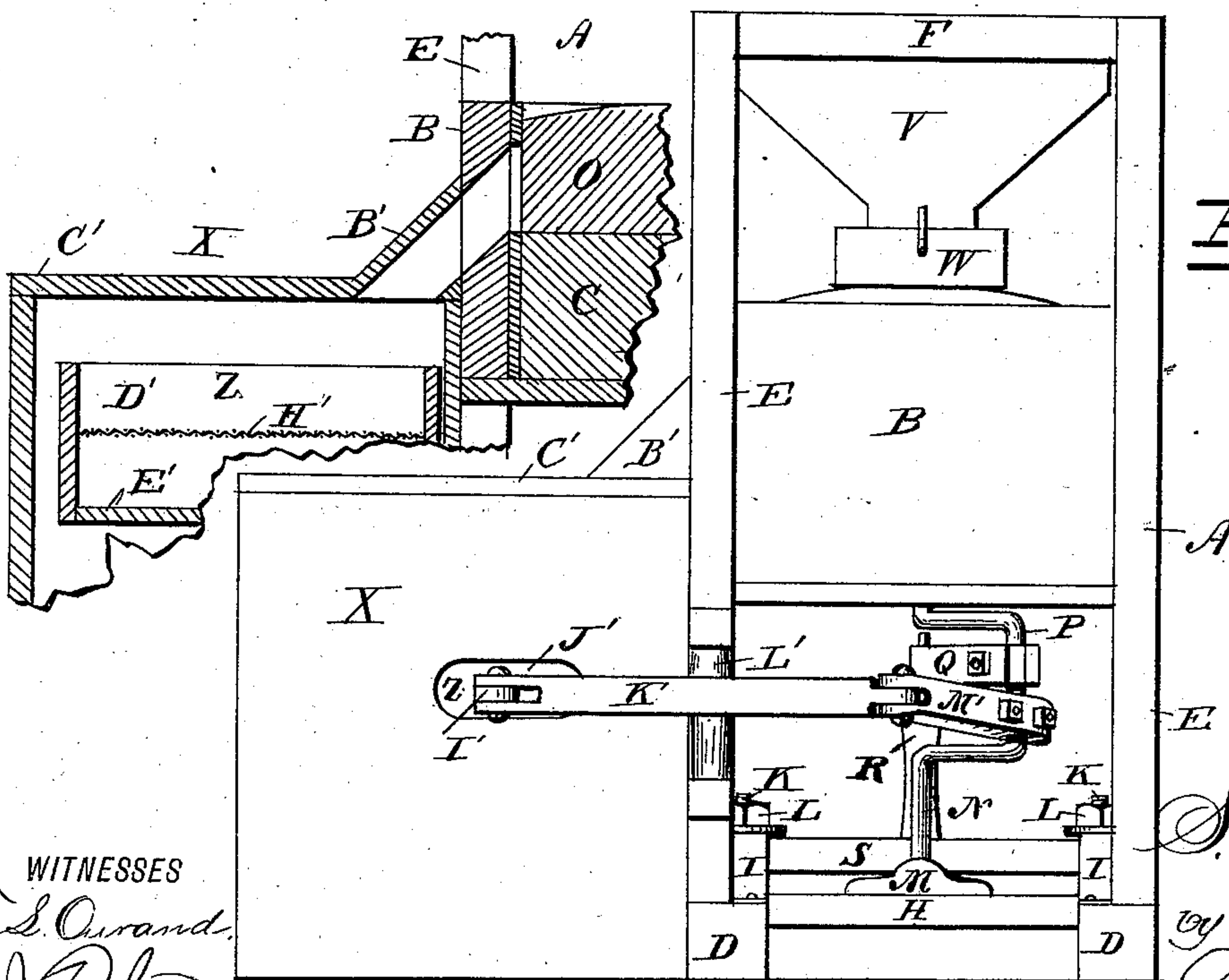


Fig. 5.

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UNITED STATES PATENT OFFICE.

SALOMON LUCATS, OF NASHVILLE, TENNESSEE.

GRINDING-MILL.

SPECIFICATION forming part of Letters Patent No. 287,839, dated November 6, 1883.

Application filed July 23, 1883. (No model.)

To all whom it may concern:

Be it known that I, SALOMON LUCATS, having declared my intention to become a citizen of the United States, residing at Nashville, in the county of Davidson and State of Tennessee, have invented a new and useful Grinding-Mill, of which the following is a specification, reference being had to the accompanying drawings.

10 This invention relates to grinding-mills for general use; and it has for its object to produce a machine which shall possess superior advantages in point of simplicity, durability, and general efficiency.

15 To this end it consists in certain improvements in the construction of the same, which will be hereinafter fully described, and particularly pointed out in the claim.

20 In the drawings hereto annexed, Figure 1 is a perspective view of my improved grinding-mill. Fig. 2 is a transverse vertical sectional view of the same. Fig. 3 is a longitudinal vertical sectional view taken through the bolting-chest. Fig. 4 is a detail sectional view taken through the delivery-spout, and Fig. 5 is a rear view.

The same letters refer to the same parts in all the figures.

30 A in the drawings designates a suitable frame supporting the casing B, within which the bedstone C is mounted or supported, as shown. The frame A consists, essentially, of two parallel base-pieces, D D, supporting four uprights, E E, the upper ends of which are connected by braces F F. The inner sides of the base-pieces D D have recesses G G, to receive the ends of the transverse step or spindle-bearing H. I I are bails arranged over the recesses G, and having perforations J, through which pass the upper ends of bolts K, extending upwardly from the ends of the step H, and provided with nuts L, which may be tightened or loosened, so as to raise or lower the step H.

45 The step H is provided with a box or bearing, M, for the lower end of the spindle N, which extends upward through the bottom of the casing B and through the eye in the bedstone C. The runner-stone O is hung or mounted upon the upper end of the spindle, as shown. The spindle N is formed with a crank, P, connected by a pitman, Q, with the

upper end of a rod or arm, R, extending upwardly from a rock-shaft, S, journaled between the base-pieces D of the machine. Rock-shaft S has a forwardly-extending treadle, T, by means of which it may be conveniently operated by foot-power. 55

The two side braces, F, at the top of the frame furnish bearings for pivots U, extending from the sides of the funnel or hopper V, which is thus supported in its proper position. The lower end of the hopper has the hinged shaker or distributor W, which feeds the material to be ground to the stones. 60 65

X is a box or casing arranged beside the frame A, and connected thereto in any suitable manner. The sides of the box or casing are provided with cleats Y, forming guides or bearings for the longitudinally movable or reciprocating sieve or screen Z, under which drawers or other suitable receptacles, A', are arranged, one at each end of the box. 70

B' is a chute or spout leading from the casing B to the box X, and terminating above the sieve or screen Z, for the purpose of conveying into the latter the chop as it comes from the stones. The box X is provided with a hinged cover, C', through which access may be had to the sieve. 75 80

The sieve or screen Z consists of a frame, D', having an inclined bottom, E', provided at both ends with openings or slots F'. The upper end of the bottom has an upwardly-projecting flange, G', to which is secured the lower edge of the bolting-cloth H', which extends from thence upwardly to the other end of the box or frame of the screen. Said bolting-cloth may be secured or attached to the screen in any suitable manner. 85 90

It will be seen that when the chop is discharged upon the screen the fine portions will pass through the latter onto the inclined bottom of the screen, whence it will pass into one of the boxes or receptacles A', while the coarse portions will pass directly off the bolting-cloth, over the flange G', and through the slot adjoining said flange into the other box or receptacle. 95

A reciprocating motion is imparted to the sieve or screen as follows: The rear end of the said screen has a pivoted rod, I', extending through a slot, J', in the end of the box or casing X. Said rod is connected pivotally with 100

one end of a rocker-arm, K', attached to a rock-shaft, L', mounted vertically in suitable brackets projecting from the rear side of the frame A. The other end of the rocker-arm is connected by a pitman, M', with the crank P upon the shaft or spindle N. It will be seen that when the latter is operated it serves at the same time to communicate the desired reciprocating motion to the screen or sifter.

10 From the foregoing description, taken in connection with the drawings hereto annexed, the operation and advantages of my invention will be readily understood. It is simple in construction, easily and conveniently manipulated, effective in operation, and may be manufactured at a small cost.

I claim as my invention and desire to secure by Letters Patent of the United States—

20 The herein-described milling apparatus, comprising the frame A, the casing B, the

bed-stone and runner, the vertical crank-shaft or spindle carrying the runner, the treadle mechanism arranged to operate said shaft, the box X, secured to the side of frame A, the longitudinally-movable sieve mounted in the said box, the chute or spout B', the pivoted connecting-rod I', the rock-shaft L', having arm K', one end of which is connected pivotally with the rod I', and a pitman, M', connecting the other end of the rocker-arm with the crank P of the shaft or spindle N, substantially as set forth. 25 30

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

SALOMON LUCATS.

Witnesses:

JNO. H. BASKETTE,
JOS. C. JACOBUS.