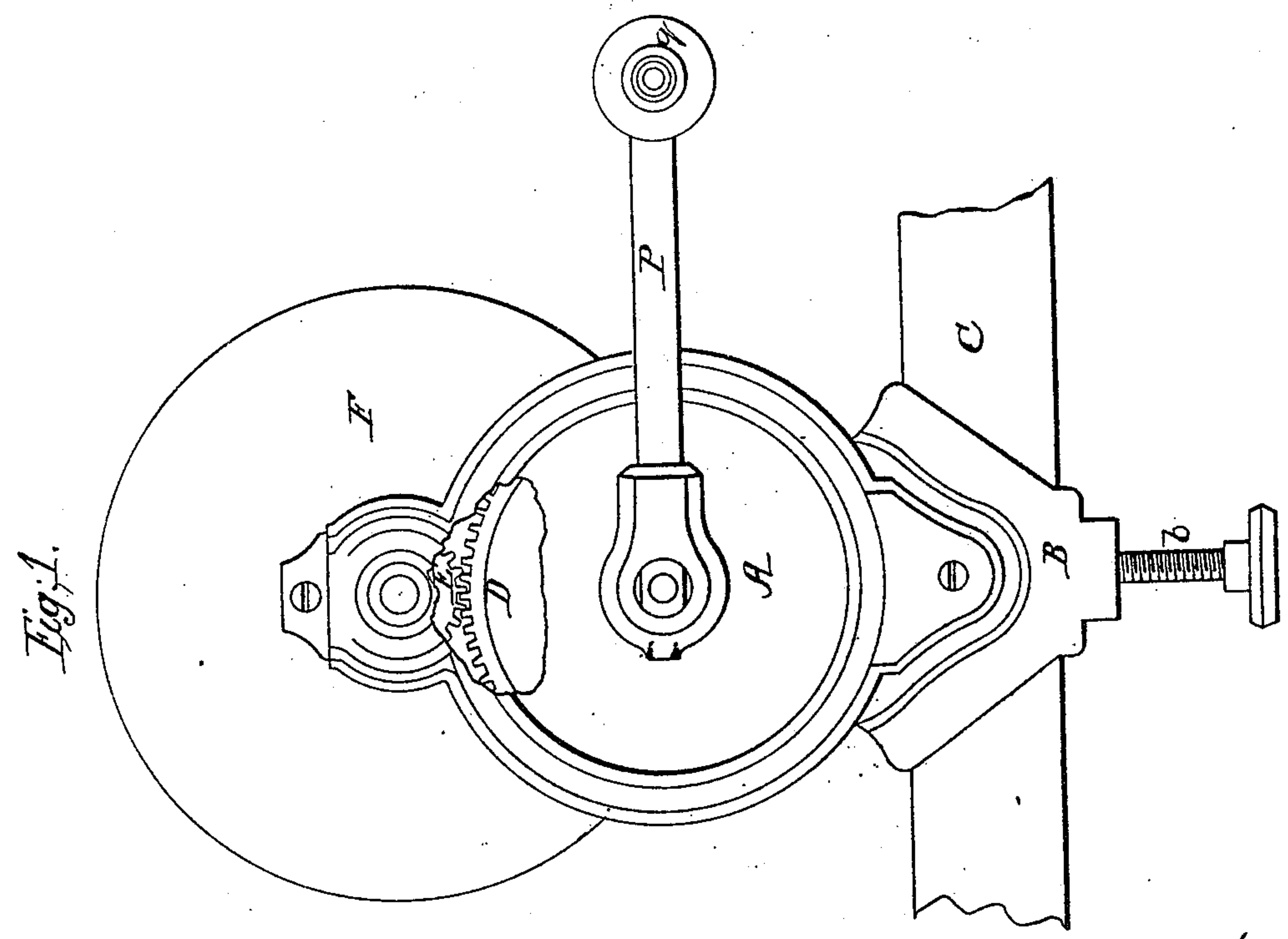
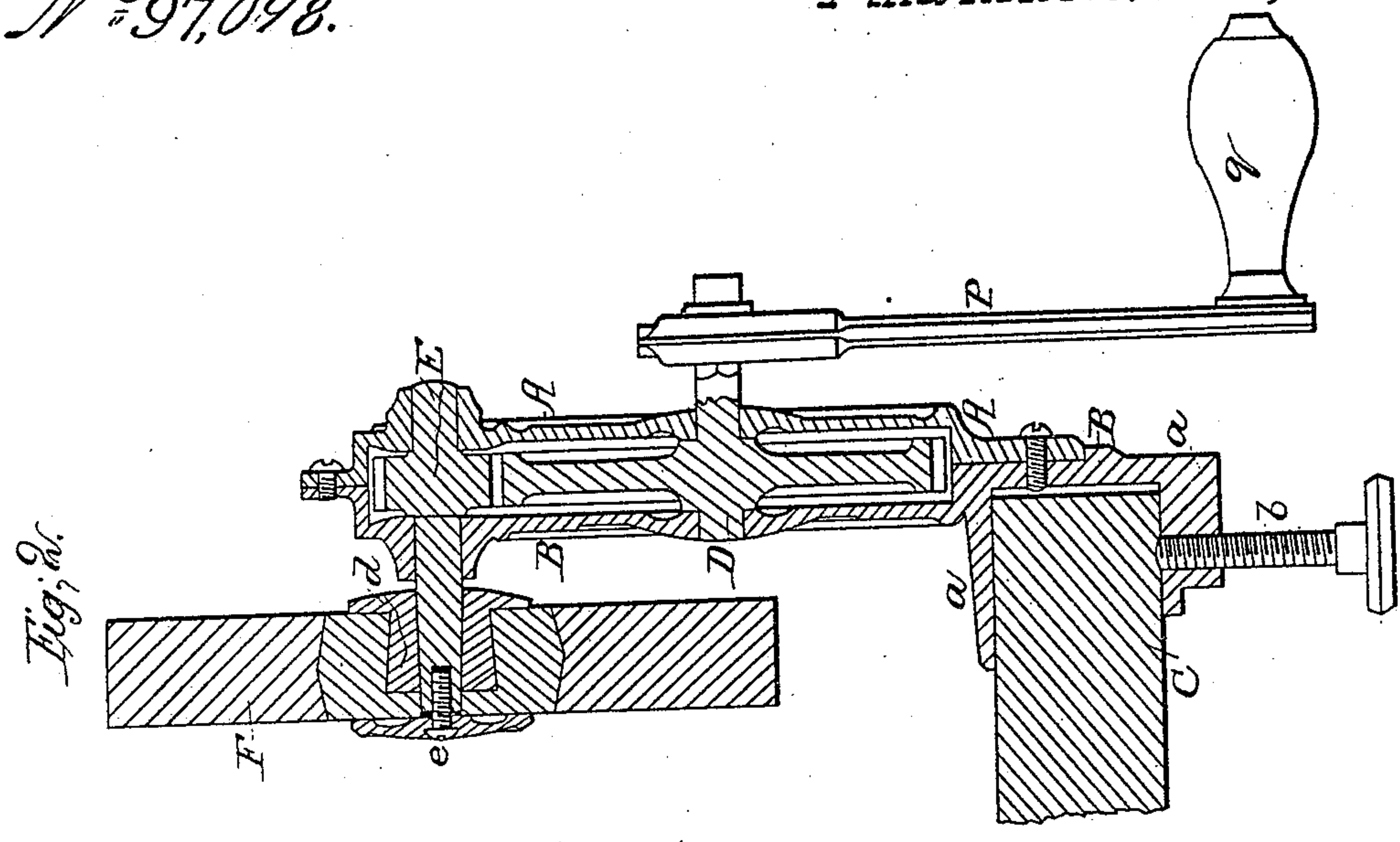


T. Loring. Grindstone.

N^o 97,098.

Patented Nov. 23, 1869.



Witnesses;
A. C. E. E. E.
C. Quinn

Inventor;
T. Loring

United States Patent Office.

THOMAS LORING, OF BLACKWOODTOWN, NEW JERSEY.

Letters Patent No. 97,098, dated November 23, 1869.

IMPROVEMENT IN GRINDSTONES.

The Schedule referred to in these Letters Patent and making part of the same.

I, THOMAS LORING, of Blackwoodtown, in the county of Camden, and State of New Jersey, have invented certain Improvements in Grindstones, of which the following is a specification.

The object of this improvement is to furnish a grindstone with the necessary fixtures, which, when completed, and ready for shipment, can be taken apart, for facility in packing, in such a manner that it is not liable to be injured by handling with ordinary care, and again be put together and set up by the purchaser, without difficulty.

The improvements consist in the construction of the frame or case, surrounding and enclosing the driving-wheel, and the pinion on the arbor or shaft of the stone, and the manner in which the stone is secured to such arbor, and in the arrangement of the different parts relatively to each other, as hereinafter described.

To enable those skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

In the annexed drawings—

Figure 1 represents a front elevation of the device, showing it attached to the ledge of a table.

Figure 2 represents a central vertical section thereof.

A is the front part of the case, and B, its back, the lower end of which is prolonged, and formed into the

jaws or brackets *a a*, by which to secure it to a ledge or table, C, by means of the thumb-screw *b*.

D is the driving-wheel, gearing into the pinion E, to the shaft or arbor of which the grindstone F is secured, as shown in fig. 2.

A dovetailed hub or bushing, *d*, being cemented accurately in the centre or eye of the stone, and fitting closely upon the tapering arbor, and held by the washer and screw *e*, permits the ready removal of the stone for packing, and its accurate replacement and readjustment, when received and put up by the purchaser.

Several sizes of stones, each having the same size of bushing, are adapted to each number or size of the driving-mechanism, and its frame or case.

For facility and safety in transportation, the stone and crank are both detached, when prepared for packing, to avoid any danger of breakage.

What I claim as new, and desire to secure by Letters Patent, is—

The grindstone F, with hub or bushing *d*, arbor and pinion E, driving-wheel D, and the case A B, with jaws *a a*, all constructed and arranged as described.

THOS. LORING.

Witnesses:

EDWARD WILLIAMS,
B. EDW. J. ELLS.