

No. 665,466.

Patented Jan. 8, 1901.

I. REITZ.
WHETSTONE MAKING MACHINE.

(No Model.)

(Application filed Apr. 24, 1900.)

3 Sheets—Sheet 1.

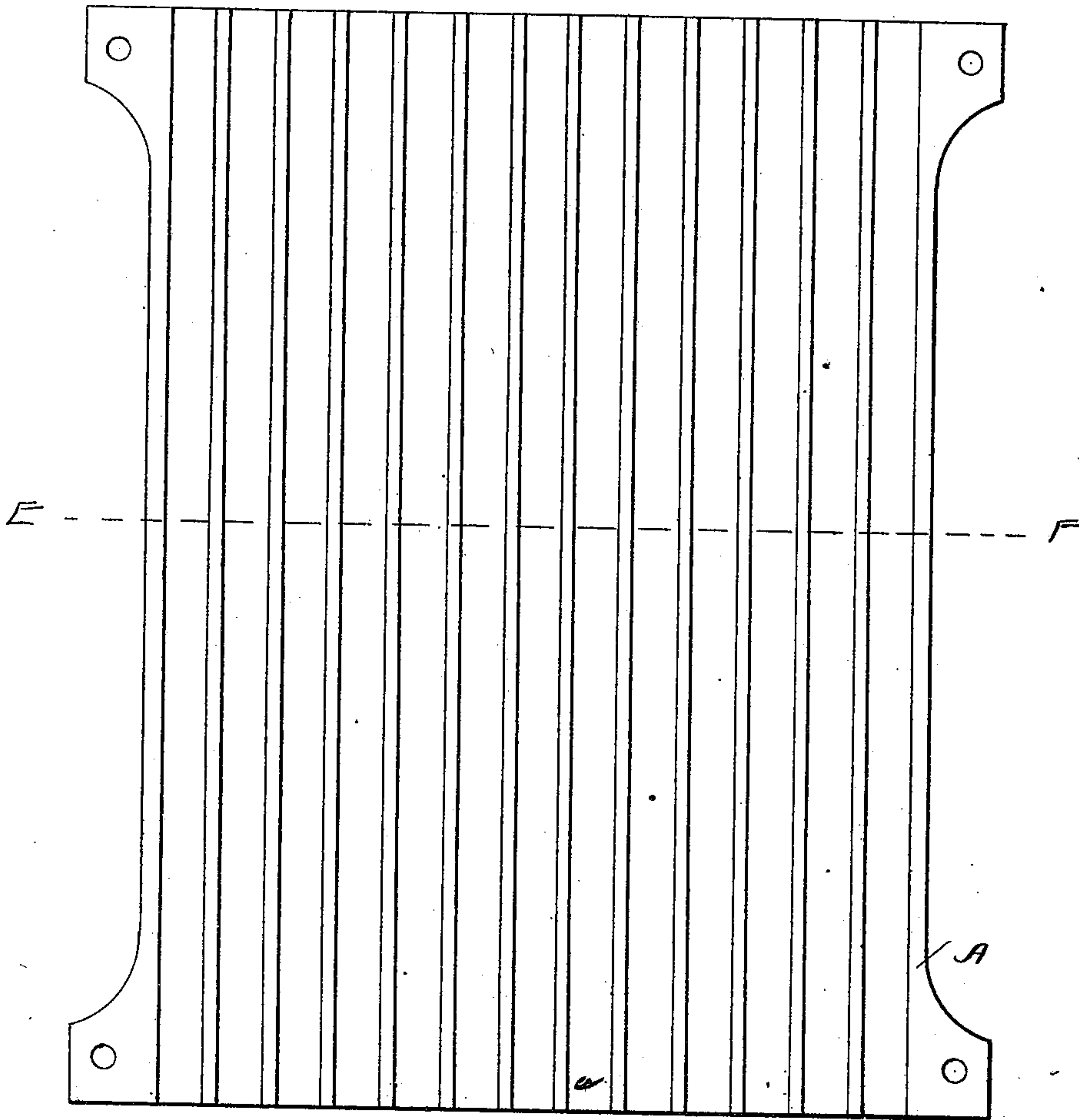
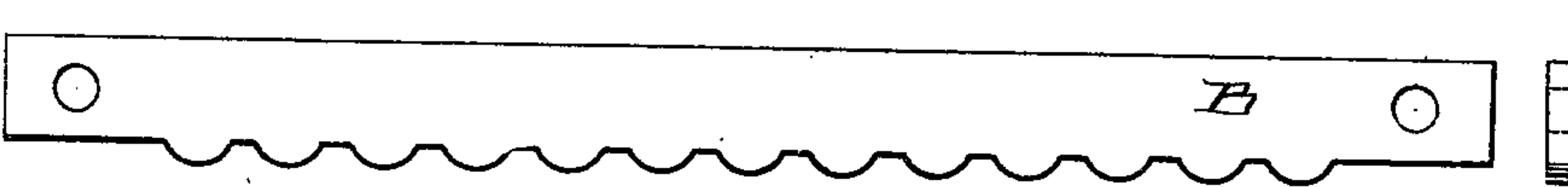


Fig 1

Fig 1^a



Fig 1^b



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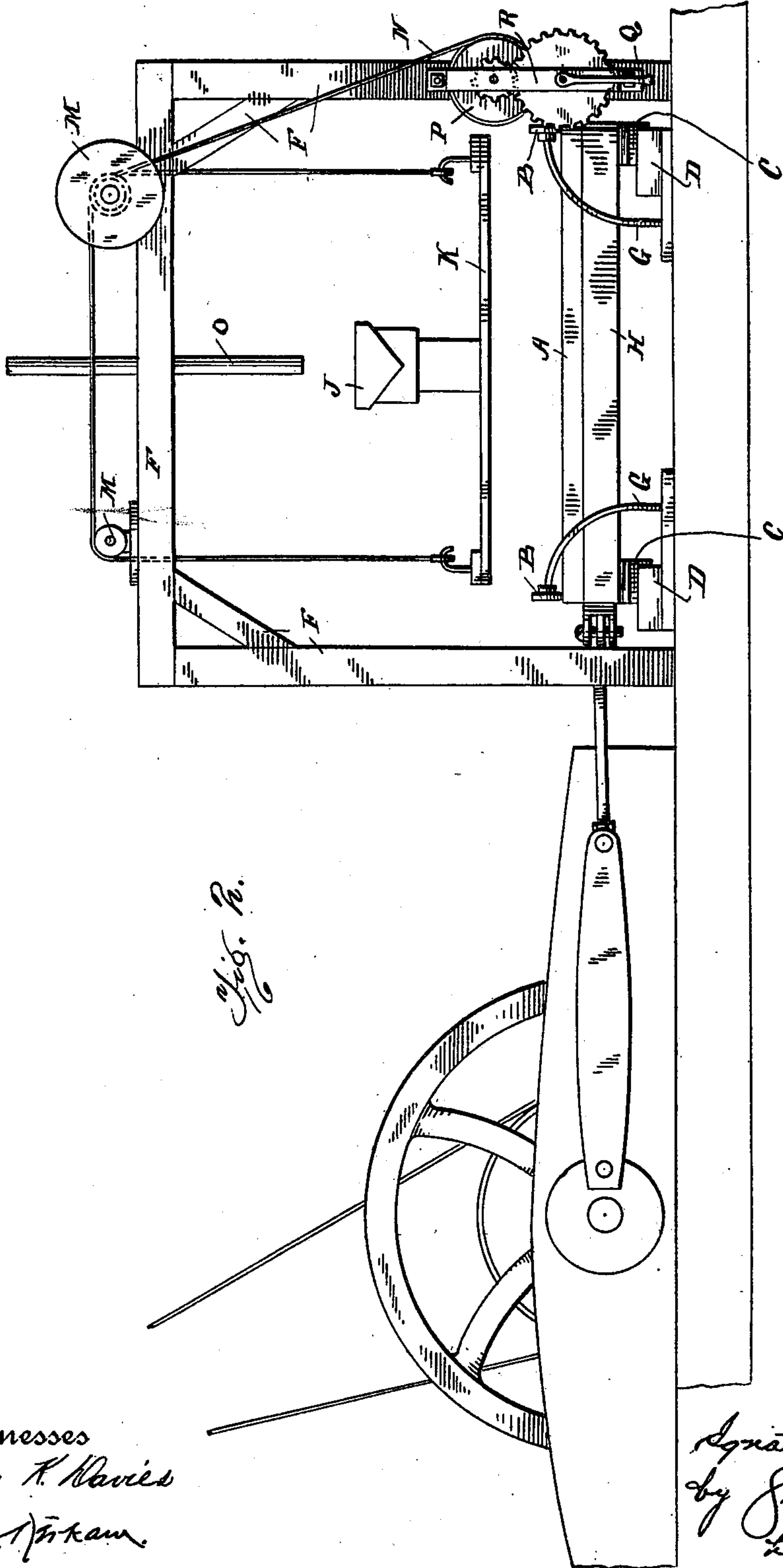


Fig. 2.

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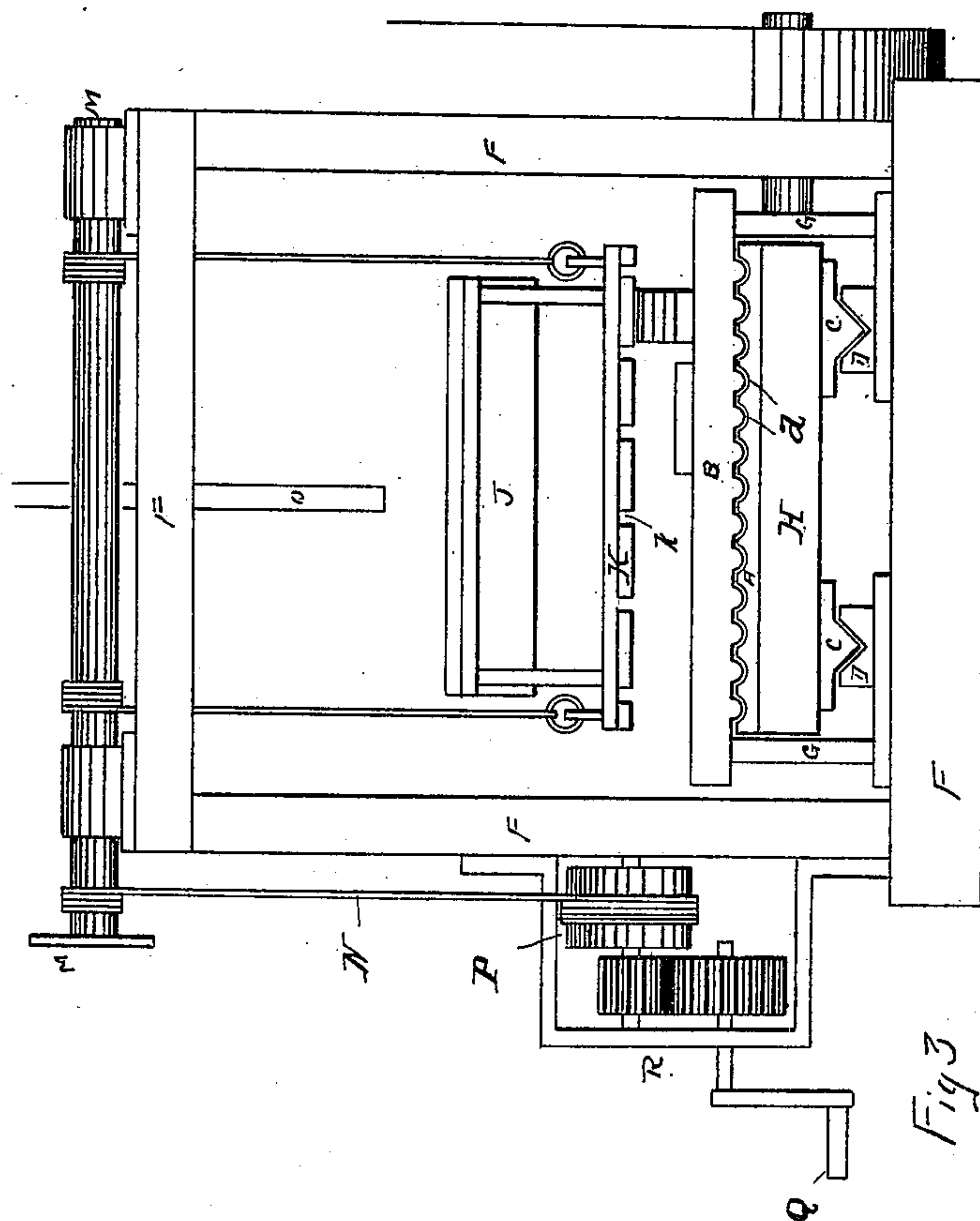
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UNITED STATES PATENT OFFICE.

IGNATIUS REITZ, OF PORTSMOUTH, OHIO.

WHETSTONE-MAKING MACHINE.

SPECIFICATION forming part of Letters Patent No. 665,466, dated January 8, 1901.

Application filed April 24, 1900. Serial No. 14,147. (No model.)

To all whom it may concern:

Be it known that I, IGNATIUS REITZ, a citizen of the United States, residing at Portsmouth, in the county of Scioto and State of Ohio, have invented a new and useful Whetstone-Making Machine, of which the following is a specification.

My invention relates to the art of making whetstones, and has for its object to construct a machine for this purpose which shall be simple and efficient in operation and which shall form a large number of whetstones at a single operation.

With this object in view the invention consists of a reciprocating combined bed-plate and grinding or rubbing surface provided with a plurality of grooves, with means for preventing the reciprocation of the stone and means for supplying sand and water to the parts during the operation of the machine.

I have illustrated in the accompanying drawings one form which my invention may assume, in which—

Figure 1 is a top plan view of the reciprocating bed-plate. Fig. 1^a is a transverse section thereof on the line E F, Fig. 1. Fig. 1^b is a side elevation of the end plate which cooperates with the bed-plate of Fig. 1. Fig. 2 is a side elevation of my improved machine, and Fig. 3 is an end elevation thereof.

Referring to the drawings, A represents a bed-plate mounted on a suitable carriage H, which carriage is arranged to reciprocate in ways D, within which the V-rails C move freely. The bed-plate is reciprocated, preferably in a horizontal plane, by any suitable means, here shown as an engine, to the crank-shaft of which the bed-plate is connected. A series of equally-spaced grooves *a* is formed in the upper surface of the bed-plate A, which grooves may be of any desired shape in cross-section and are here shown as semioval grooves.

B B are plates supported, one at each end of the machine, upon brackets G G, the lower edges of said plates having an outline the reverse of the cross-sectional outline of the upper surface of the bed-plate, (see Figs. 1^a, 1^b, and 3,) the plates being supported by the brackets G, so that the lower edges of the plates are very slightly above the upper surface of the bed-plate. The entire machine is

mounted upon a framework of base, upright, and cross timbers F.

K is a platform above the bed-plate A, upon which platform rests a receptacle J for sand and water, the latter being fed to the receptacle J through a pipe O. The platform K may be raised or lowered at will by means of ropes attached to the platform and passing around a windlass M, supported by the frame-timbers F. The windlass may be conveniently operated by means of a rope N, passing around the windlass, and a suitable drum P, driven by a crank Q, which, with the drum and connecting-gearing, is supported in bracket R, attached to one of the upright members of the frame F. The platform K is constructed with open spaces or cracks *k*, Fig. 3, through which the sand and water from the receptacle J are distributed.

The operation of my machine is as follows: The stone in the rough being laid in one of the grooves of the bed-plate A the platform K is lowered into contact with the stone, in which position it is between the end plates B B. It will be apparent that a large number of stones may thus be placed upon the surface of the bed-plate A. The parts being thus positioned the engine is started and the bed-plate A reciprocated. The stones and the platform K do not participate in the reciprocating movements of the bed-plate, being restrained by the end plates B B. The result is that the lower surface of each stone is worn away until it conforms to or becomes a counterpart of the upper surface of the bed-plate A, when the stone is reversed or turned the other side up and the operation repeated. During the reciprocation of the slide sand and water pass from the receptacle J through the openings in the platform K onto the stones and into the grooves formed on the upper surface of the bed-plate A, where they serve to assist in the cutting action of the plate upon the stone in a way well understood.

From the foregoing it will be seen that I have devised an exceedingly simple machine which may be strongly and cheaply constructed and which is effective in operation.

Having thus described my invention, what I claim is—

1. In a machine for making whetstones, the combination of a bed-plate having a series

of grooves formed in its upper surface, end plates having lower edges constituting in outline a counterpart of the surface of the bed-plate in cross-section and supported above and in proximity to said plate, and means for reciprocating said bed-plate.

2. In a whetstone-making machine, the combination of a grooved reciprocating bed-plate, end plates supported above the bed-plate and having parts entering the grooves thereof, means for reciprocating the bed-plate, and means supplying sand and water to the parts.

3. In a whetstone-making machine, the combination of a grooved reciprocating bed-plate, end plates supported above the bed-plate, a platform above the bed-plate and a

sand and water receptacle supported by said platform.

4. In a whetstone-making machine, the combination of a grooved bed-plate supported in suitable ways, means for reciprocating said plate in said ways, means restraining the stone on said plate against reciprocation and means supplying sand and water to said grooved plate.

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

IGNATIUS REITZ.

Witnesses:

JOHN R. HUGHES,
R. A. CALVERT.