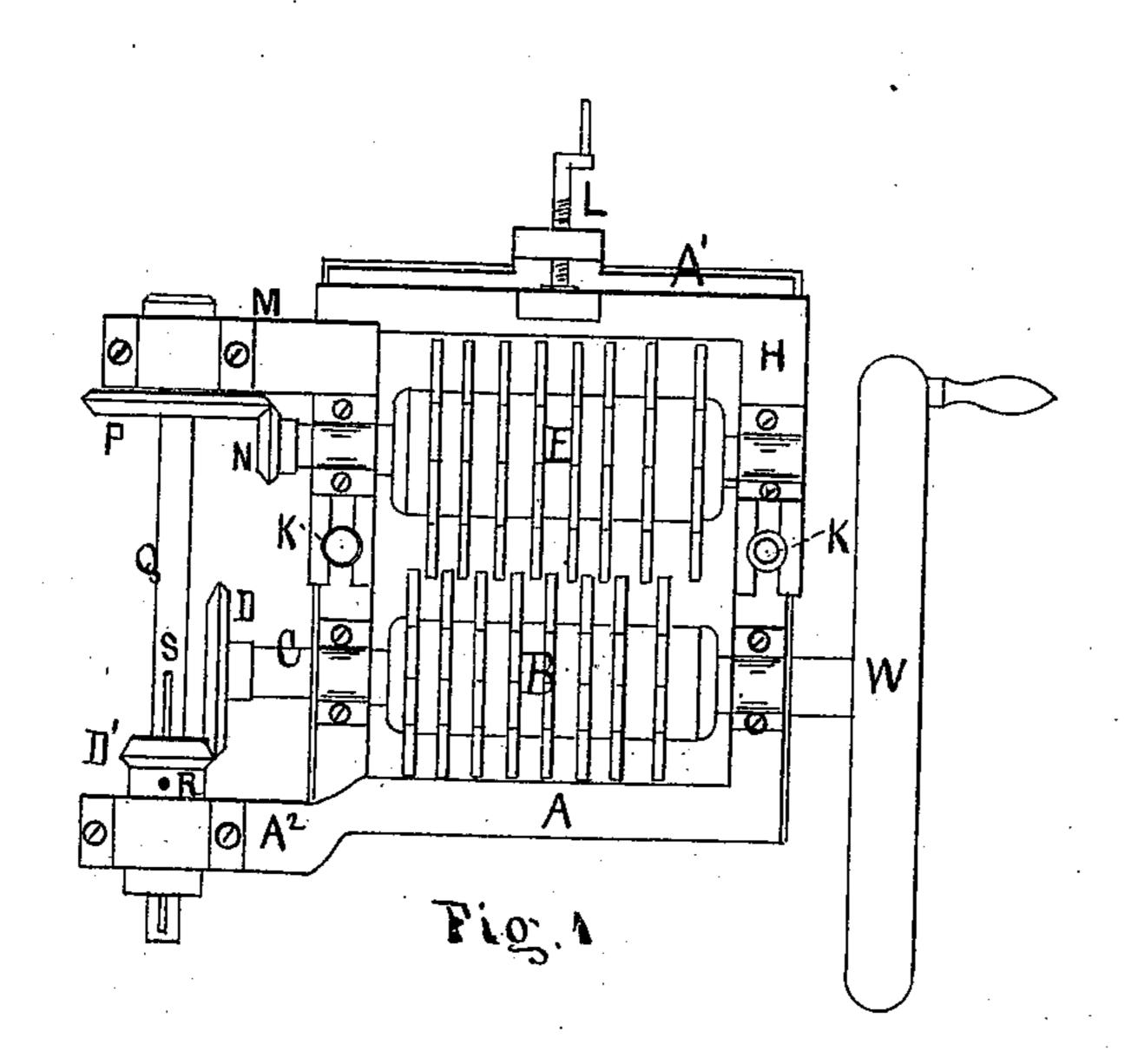
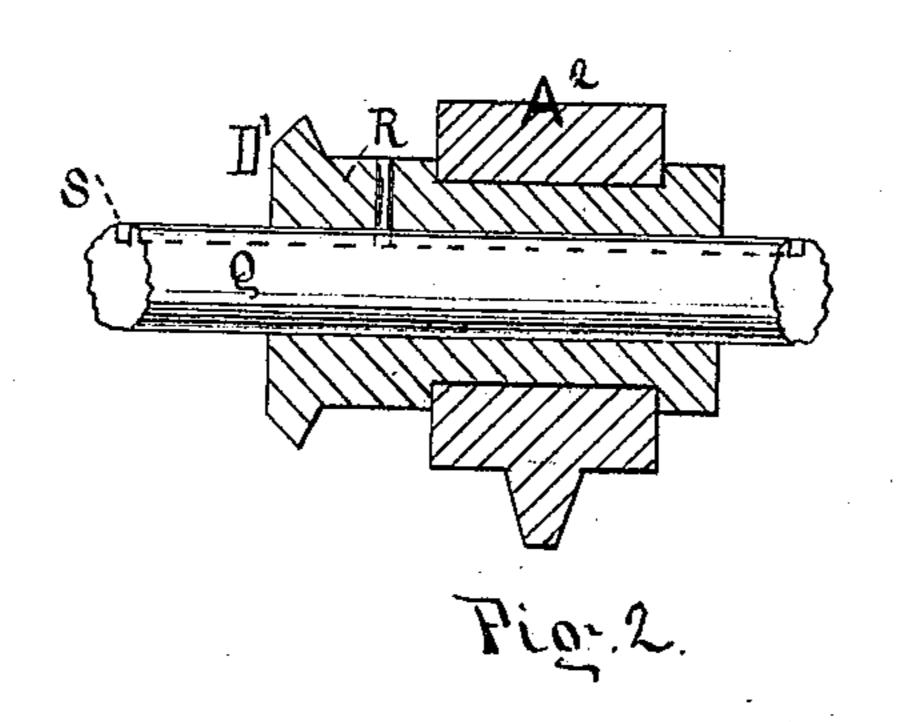
D. W. LOW.

ICE-CRUSHING MACHINE

No. 181,273.

Patented Aug. 22, 1876.





Witnesses Augustus Andrews, Thomas J. Finguson

David W. Low per William Edson att

UNITED STATES PATENT OFFICE.

DAVID W. LOW, OF GLOUCESTER, MASSACHUSETTS.

IMPROVEMENT IN ICE-CRUSHING MACHINES.

Specification forming part of Letters Patent No. 181,273, dated August 22, 1876; application filed April 1, 1876.

To all whom it may concern:

Be it known that I, DAVID W. Low, of Gloucester, in the county of Essex and State of Massachusetts, have invented certain new and useful Improvements in Ice-Crushing Machines, of which the following is a specification:

The nature of my invention consists in an improvement in that class of ice-crushing machines that crush the ice between two toothed cylinders, and embodies a device by which the distance between the cylinders may be regulated while the machine is in operation.

Figure 1 is a plan of the machine. Fig. 2 shows one of the bearings in detail.

Lèt A A¹ represent a fixed frame, to which the crushing cylinder B is attached. This cylinder, together with the shaft C and gearwheel D, is driven by the wheel W. Upon the fixed frame A A¹ A² I fix a sliding frame, H M, which is held in position by the screws K K, which work in slots, as shown, so as to allow the frame H to slide. L is a hand-screw, connected to both frames, and arranged to give a sliding motion to the frame H M, and through it to the second or movable crushing-cylinder E. The cylinder E is made to revolve

by the gears D D', shaft Q, and gears P N, as shown. The gear D' is attached to a quill, R, which is hung in the housing A². (Shown more clearly in Fig. 2.) The shaft Q has a keyway at S, which fits a corresponding spline on the interior of the quill R, so that, though the shaft Q is free to slide in the quill, it must revolve with the gear D, and through it give motion to the gears P and N and the cylinder E.

From the above it may be seen that, by sliding the frame H by means of the adjusting-screw L, the distance between the two cylinders B and E may be adjusted at will while the machine is in motion.

I claim as my invention-

An ice-crushing machine having two rollers, B and E, the sliding frame H M, having a screw-threaded recess, adjusting-screw L, gears D D'P N, and sliding shaft Q, the whole combined substantially as and for the purpose set forth.

DAVID W. LOW.

Witnesses:

WILLIAM EDSON, AUGUSTUS ANDREWS.