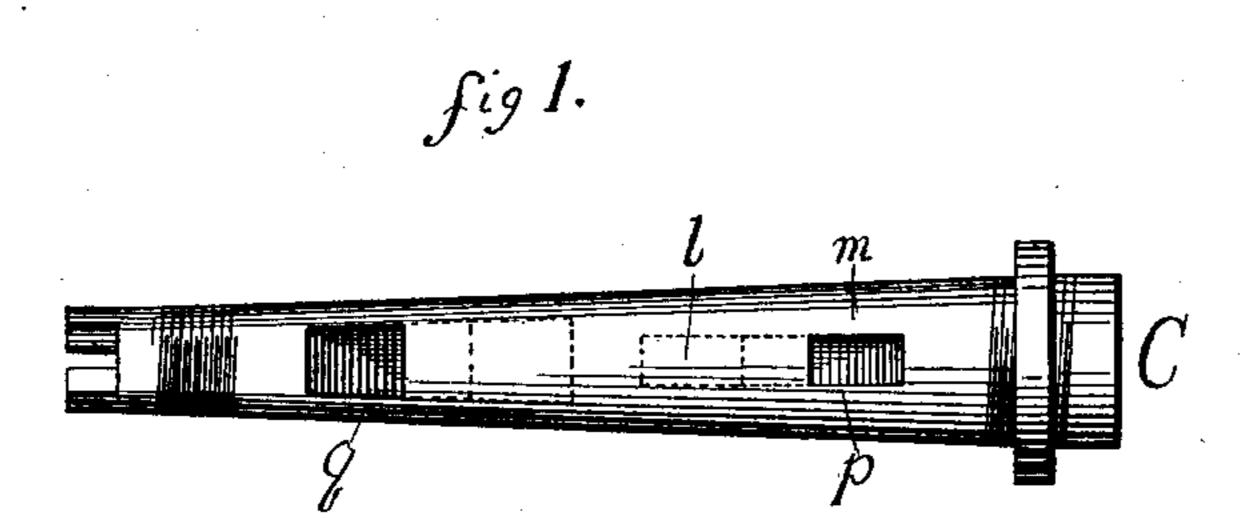
No. 608,483.

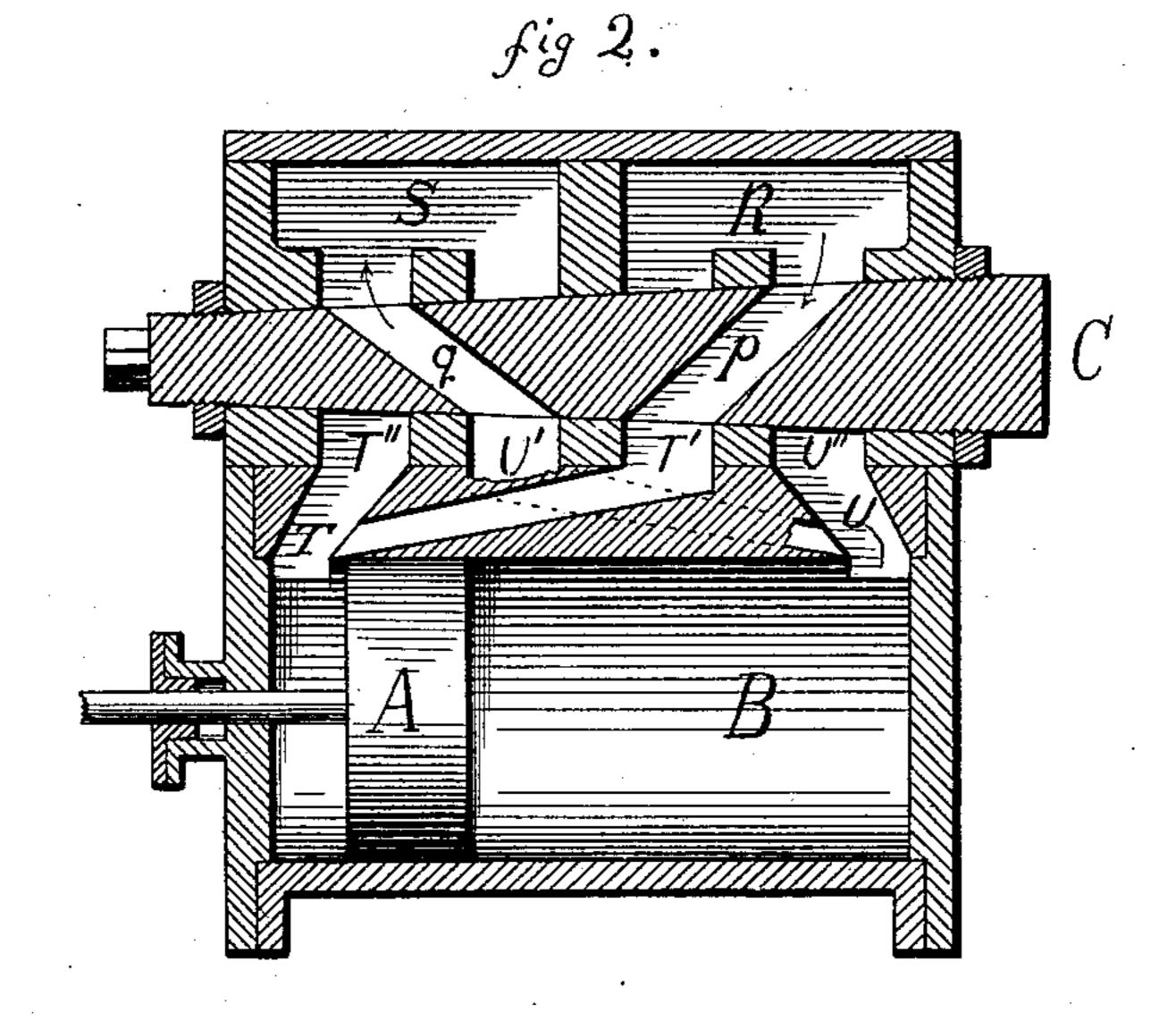
Patented Aug. 2, 1898.

M. B. SELLERS. ENGINE VALVE.

(Application filed June 14, 1897.)

(No Model.)





A. L. Gellers. S. C. Sellers.

INVENTOR M. B. Sellers

United States Patent Office.

THE THE PROBLEMS, OF CHICED COUNTY, KENTUCKY.

ENGINE-VALVE.

SPECIFICATION forming part of Letters Patent No. 608,483, dated August 2, 1898.

Application filed June 14, 1897. Serial No. 640,790. (No model.)

To all whom it may concern:

Be it known that I, MATTHEW B. SELLERS, a citizen of the United States, residing in the county of Carter, State of Kentucky, have in-5 vented a new and useful Engine-Valve, of which the following is a specification.

The object of my invention is to produce an engine-valve which shall admit and exhaust the steam during any predetermined 10 part of the stroke. This I accomplish by making my valve cylindrical, with ports passing through it, and by causing it to revolve continuously in one direction.

15 the valve only; Fig. 2, a horizontal section showing the valve in its chest or casing, with a diagram of the steam-passages into the cylinder.

The valve, which is cylindrical and taper-20 ing, has two diagonal ports or ways p and q, Fig. 1, passing diametrically through it. By "diagonal port" is meant such a one p, Fig. 1, that if its ends h and m were joined by a line this line would make an acute angle with 25 the axis of the cylinder C. This valve C, Fig. 2, by a suitable gearing is caused to make one revolution for each double stroke of the piston. Starting with the piston at the end T of the cylinder $\bar{\mathbf{B}}$ the valve-port p will connect 30 the steam-chest R with the passage T', leading

to the end T of the cylinder, while the port qwill connect the exhaust-chest S with the passage V', leading to the end V of the cylinder. The piston will move toward V. At the end of the stroke the port p comes into register 35 with the opening V", leading to V, and port qwith the passage T", leading to the end T of the cylinder. Thus each end of the cylinder is connected alternately with the supply and exhaust chambers, the duration of admission 40 depending on the size of the openings p, T', and V'.

I am aware that prior to my invention en-In the drawings, Figure 1 is a side view of | gines have been made with cylindrical valves. I therefore do not claim the cylindrical en- 45 gine-valve broadly; but

> What I claim, and desire to patent, is— In a reciprocating engine, a cylindrical valve, with diagonal ports, passing diametrically through it; together with a valve-cas- 50 ing, having corresponding passages and steam and exhaust chests, so arranged, that the valve, by revolving, shall connect the ends of the cylinder, alternately, with the supply and exhaust chambers as herein described.

> > MATTHEW B. SELLERS.

Witnesses:

S. E. BAGLEY, L. N. DAVIS.