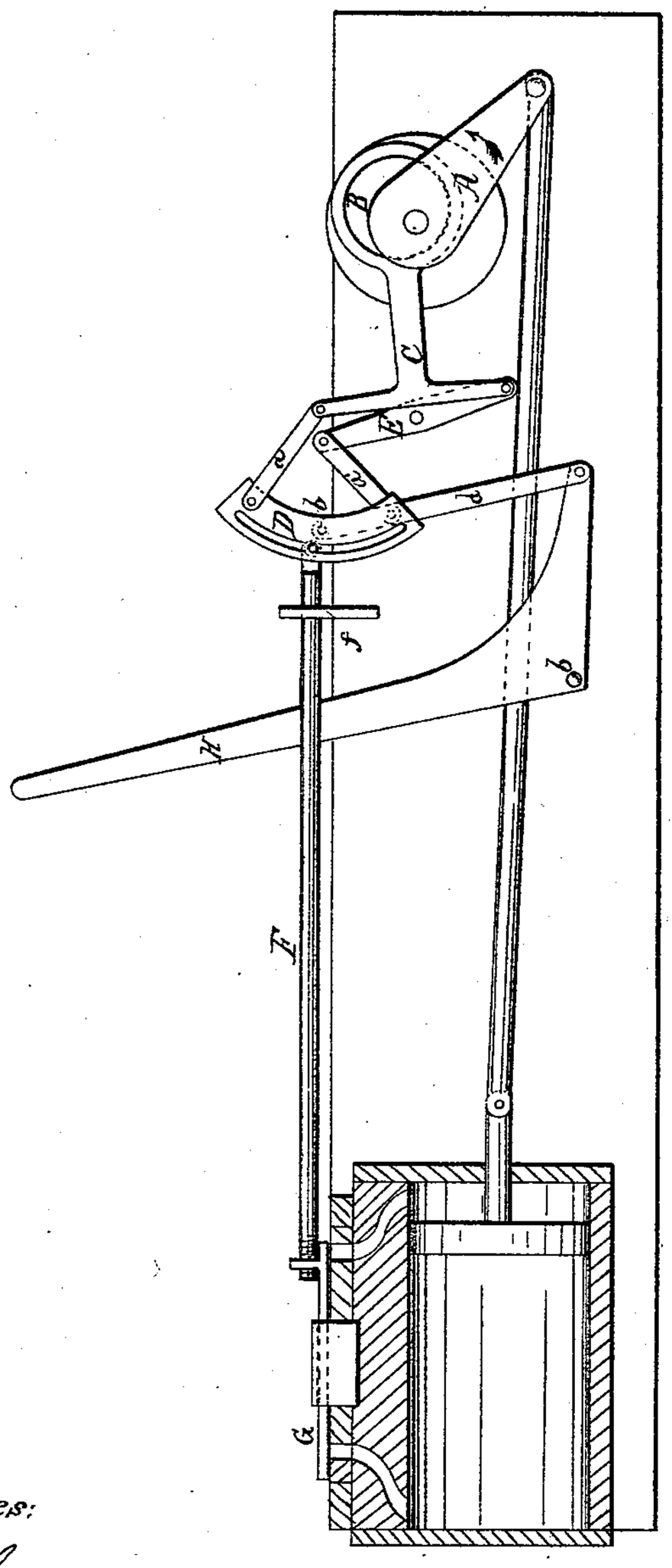
C. C. P. Peabody,

Steam-Engine Valve-Gear.

No. 61,682. Patented Jan. 29, 1867.



Witnesses:

F. A. Jackson

Wm. Irwin

Inventor;

C. C. P. Peabody

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Attys;

United States Patent Office.

C. C. P. PEABODY, OF CALAIS, MAINE.

Letters Patent No. 61,682, *dated January* 29, 1867.

IMPROVEMENT IN STEAM-ENGINE VALVE GEAR.

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

TO ALL WHOM IT MAY CONCERN:

Be it known that I, C. C. P. PEABODY, of Calais, county of Washington, and State of Maine, have invented a new and useful improved Valve Movement; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to that class of valve movement which involves the link motion, and it consists in an arrangement which enables me to operate the valve of a steam engine, and to change the engine from a forward to a back motion (or to reverse the engine) with one eccentric.

The drawing represents a vertical longitudinal section of my arrangement.

Similar letters of reference indicate like parts.

A represents the crank of the engine; B the eccentric; C the eccentric rod; D the link; E the rock-bar; F is the valve-rod; G is the slide valve; H is the shifting lever. The chief feature of my improvement is in making the link in the form of a segment or quarter circle, and which is connected with the valve-rod in the usual way. One end of the link is attached by a connecting-rod, *a*, to the eccentric-rod. The other end of the link is attached to the rock-bar E by another connecting-rod *a'*. The other end of the rock-bar is attached to the eccentric-rod. The two connecting-rods *a* and *a'* are of the same length, and when the valve-rod is shifted to either end of the link, the rod attached to that end of the link works parallel with the valve-rod. When one of these connecting-rods is thus working on a line or parallel with the valve-rod, the other connecting-rod swings at right angles with it. The position of the valve-rod on the link is governed by the lever H. The fulcrum of this lever is at *b; d* is a rod which connects it with the link at *b'*. A slight movement of the lever alters the position of the link and the position of the valve; and the circular link is so connected with the eccentric that the motion of the engine is reversed with the greatest ease. *f* is a guide-stand for the valve-rod. The movement can readily be understood from the drawing, and further description is not deemed necessary.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The construction of the link D and its combination with a steam-engine valve movement.

I also claim the rock-bar E, the connecting-rods *a a'* and *d*, and the lever H, arranged substantially as described, in combination with the link D and the eccentric B, as and for the purposes herein set forth.

The above specification of my invention signed by me this 16th day of October, 1866.

C. C. P. PEABODY.

Witnesses:

L. D. SAWYER,

SAMUEL CURRY.