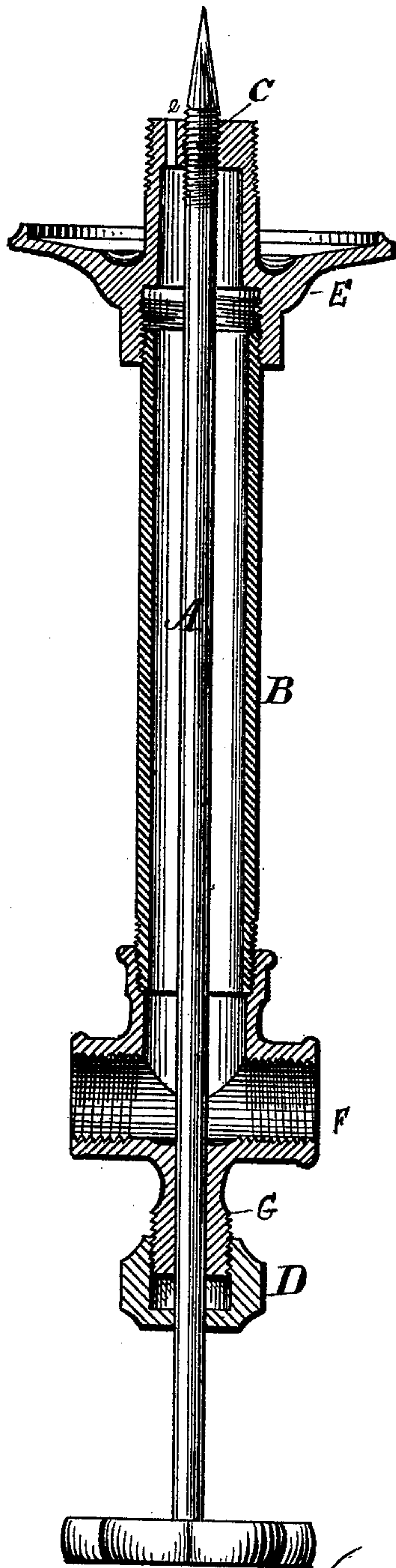


F. A. LYMAN.
Gasoline-Burner.

No. 215,009.

Patented May 6, 1879.



Attest;
Charles G. Canfield
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Inventor;
F. A. Lyman

UNITED STATES PATENT OFFICE.

FORDYCE A. LYMAN, OF CLEVELAND, OHIO, ASSIGNOR TO HERBERT TAYLOR, ROBERT BOGGIS, AND WILLIAM NOTTINGHAM, OF SAME PLACE, ONE-FOURTH TO EACH.

IMPROVEMENT IN GASOLINE-BURNERS.

Specification forming part of Letters Patent No. **215,009**, dated May 6, 1879; application filed December 2, 1878.

To all whom it may concern:

Be it known that I, FORDYCE A. LYMAN, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Gasoline-Burners, which improvements are fully set forth in the following specification and accompanying drawing, in which the figure is a vertical section of a part of a burner containing my improvements.

This invention relates to that class of gasoline-burners in which the stem of the needle-valve is provided near its pointed end with screw-threads, engaging with similar fixed threads near the base of the cone.

The nature of said invention consists in the combination, with said parts so constructed, of a vapor-generating chamber surrounding said needle-valve stem, substantially as hereinafter set forth.

In the drawing, A designates a needle-valve stem, which is surrounded by a cylindrical vapor-generating chamber, B, the upper end of which is closed by a cap-piece, E. The lower end of hollow cylinder B is attached to a tubular inverted T-shaped coupling, F, through which gasoline is supplied to said hollow cylinder or generating-chamber B. The middle of the bottom of this T-shaped coup-

ling F is provided with a downward extension, G, which is perforated to allow the passage of the smooth valve-stem A. On this extension is fastened by screw-threads a removable packing-box, D, which is also perforated to allow the working of said valve-stem. The other end of valve-stem A is screw-threaded at C, near its point, and works through the screw-tapped upper part of piece E. The latter is also suitably perforated at *e*, near the base of said point, so as to allow the vapor to pass up from generating-chamber B to the burners. (Not shown.)

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

The combination, with needle-valve stem A, screw-threaded near its point, of cylindrical gas-generating chamber B, surrounding said valve-stem, screw-tapped cap-piece E, packing-box D, and T-shaped tubular coupling F, having solid downward extension G, adapted to allow the passage of the smooth part of the valve-stem through it, substantially as set forth.

F. A. LYMAN.

Witnesses:

C. G. CANFIELD,
D. W. GAGE.