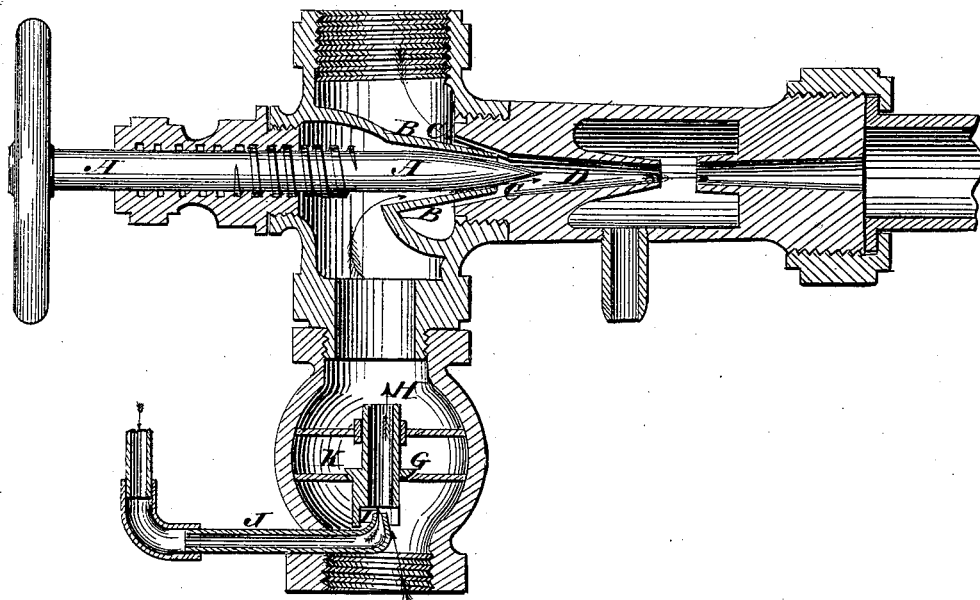


S. FOWDEN.

Injector.

No. 166,762.

Patented Aug. 17, 1875.



WITNESSES:
A. J. Terry
Alex. H. Roberts

INVENTOR:
Samuel Fowden
BY *Munn*
ATTORNEYS.

UNITED STATES PATENT OFFICE.

SAMUEL FOWDEN, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN INJECTORS.

Specification forming part of Letters Patent No. **166,762**, dated August 17, 1875; application filed July 17, 1875.

To all whom it may concern:

Be it known that I, SAMUEL FOWDEN, of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a new and Improved Injector, of which the following is a specification:

The invention will first be fully described in connection with drawing, and then pointed out in the claim.

The drawing is a sectional elevation of my improved injector.

The steam is admitted through the annular opening C, formed by the water-tube B and mixing-tube D, while the water is admitted through the central tube B, the opening through which is regulated by the adjustable spindle A.

The apparatus for lifting the water is shown at K. It consists of the valves G, with hollow stem H, steam-pipe J, and jet I. This lifting apparatus will not be necessary when the water is taken from a supply as high as the injector.

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

The combination of spindle A, water-tube B, steam-inlet C, and mixing-tube D with a subjacent tube having valve G, tube H, and jet I, as and for the purpose specified.

SAMUEL FOWDEN.

Witnesses:

WILLIAM FOWDEN,
WILLIAM HOPKIN, Jr.