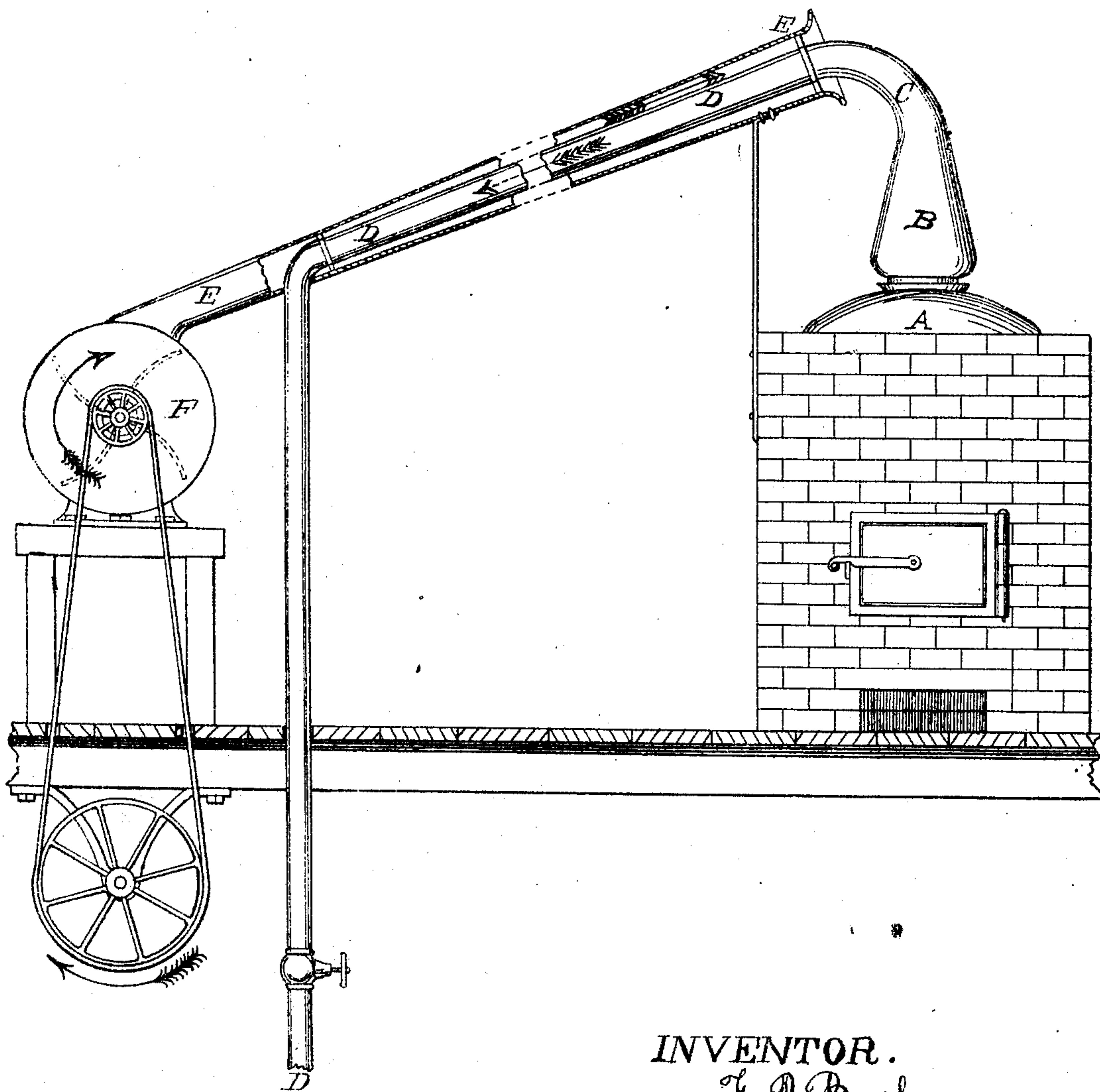


F. P. Bush.

Still.

N^o 76156

Patented Mar. 31, 1868.



INVENTOR.

F. P. Bush.

By Knight Bros.
Atty.

Attest.

Wm H. Layman.
J. P. Magee

United States Patent Office.

FRANKLIN P. BUSH, OF CINCINNATI, OHIO, ASSIGNOR TO HIMSELF AND
JEPHTHA GARRARD, OF SAME PLACE.

Letters Patent No. 76,156, dated March 31, 1868.

IMPROVED STILL.

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

TO WHOM IT MAY CONCERN:

Be it known that I, FRANKLIN P. BUSH, of Cincinnati, Hamilton county, Ohio, have invented a new and useful Improvement in Stills; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawing, making part of this specification.

My invention relates to a device for condensing alcoholic vapors by a blast or current of cold air through a pipe which surrounds or encloses that which conducts off the alcoholic vapor from the still.

The accompanying drawing is a side elevation of a condenser embodying my invention, a portion of the outer pipe being in section.

A is the still proper, having a customary head, B, and goose-neck C, from which emanates a discharge-pipe, D, whose length (varying from twenty-five to one hundred feet) should be adapted to the size of the still, nature of the spirit, and other circumstances. The pipe D is so placed as to decline from the goose-neck at an angle of about fifteen degrees with the horizon, and is enclosed within a larger pipe, E, which, proceeding from a blower, F, envelopes the pipe D in a blast of cold air, which, rapidly abstracting the heat of said pipe, effectually condenses its contained vapor.

This mode of condensation is found especially convenient in distilleries which possess only a limited supply of water, or no more than sufficient for the purposes of the engine, the mash, &c.

I claim herein as new, and of my invention—

The vapor-discharge pipe D, enclosed within the cold-blast pipe E, the whole being arranged and adapted to operate in the manner and for the purpose set forth.

In testimony of which invention, I hereunto set my hand.

FRANKLIN P. BUSH.

Witnesses:

GEO. H. KNIGHT,
JAMES H. LAYMAN.