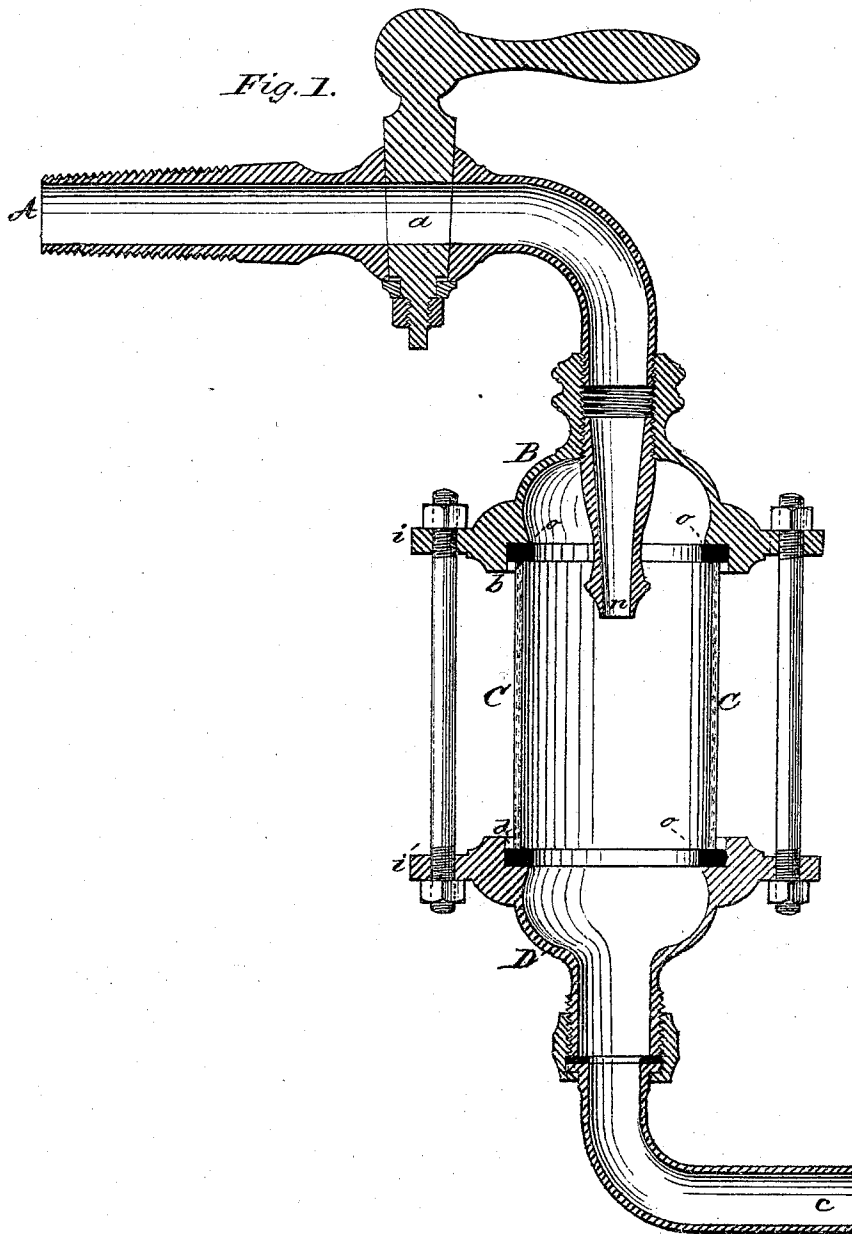


L. WOLFF.

Attachments to Spirit-Still to Prevent Frauds
upon the Revenue.

No. 147,299.

Patented Feb. 10, 1874.



Witnesses:

A. Moore
J. P. Lowe

Inventor:

Ludwig Wolff
by *A. H. & R. K. Evans*
Attys.

UNITED STATES PATENT OFFICE.

LUDWIG WOLFF, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN ATTACHMENTS TO SPIRIT-STILLS TO PREVENT FRAUDS UPON THE REVENUE.

Specification forming part of Letters Patent No. 147,299, dated February 10, 1874; application filed October 28, 1873.

To all whom it may concern:

Be it known that I, LUDWIG WOLFF, of Chicago, in the State of Illinois, have invented a new and Improved Apparatus for Connecting the Rectifying Apparatus and Receiving-Room in a Distillery; and I hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings making part of this specification, in which—

Figure 1 is a vertical section.

Generally, heretofore, the connection between the rectifying apparatus and receiving-room has been made by having the faucet from the rectifying apparatus over a funnel connected to a pipe leading into the receiving-room, so arranged that when the high wines passed from the faucet to the funnel they could be observed by the distiller. This allowed evaporation and an opportunity to tamper with the alcohol as it passed.

The object of my invention is to provide a means for observing the passage of the liquid, and at the same time to avoid evaporation and any opportunity to abstract the spirits; and it consists in the enlargement of the ends of the rectifying-apparatus pipe to the size of the funnel of the receiving-room connection, and connecting the two by a transparent section or joint, and certain other details of construc-

tion more fully hereinafter described, so that the stream can be seen through it.

In the said drawings, A is the pipe leading from the rectifying apparatus, and having a faucet, *a*. Its end is enlarged to a cup or inverted funnel, B, constructed with an offset or shoulder, *b*, to receive packing *o* and the end of a glass or other transparent cylinder, C. The other end of this cylinder rests in a funnel, D, provided with a shoulder, *d*, like the funnel B, said funnel D connecting with the pipe *c* to the receiving-room. (Not shown.) The sides of the funnels are provided with ears *i i'*, through which screw-bolts pass to clamp and draw the funnels tightly against the glass cylinder C. A prolongation of the pipe A runs below the mouth of the funnel B, to form a sort of nozzle, *n*, from which runs the spirits into the funnel D.

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

The cone B, with the projecting pipe or nozzle *n*, in combination with the transparent cylinder C, funnel D, and pipe *c*, as set forth.

LUDWIG WOLFF.

Witnesses:

G. T. WOLF,
PAUL SOBOLESKI.