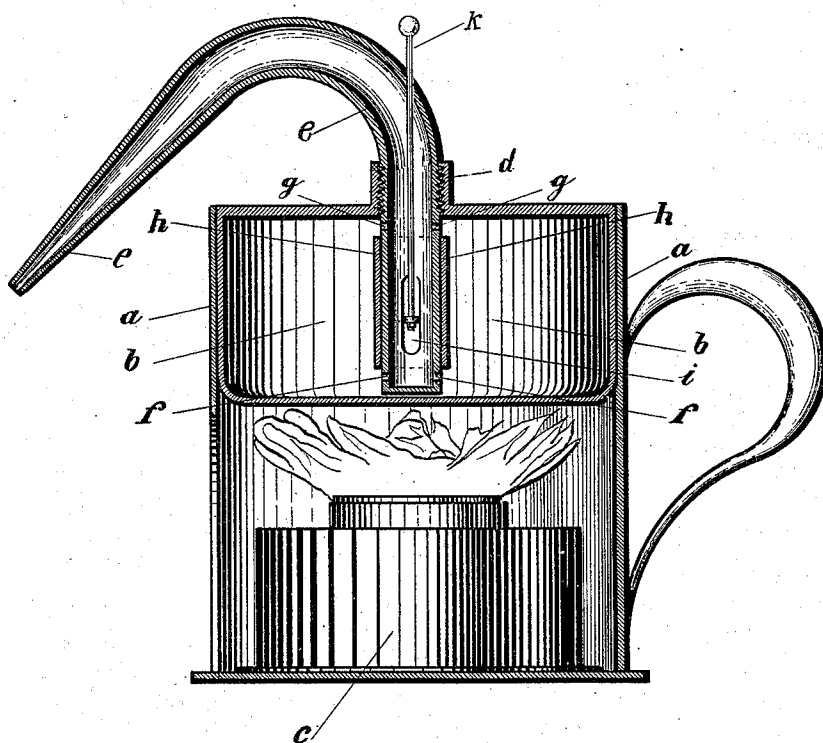


(No Model.)

W. WIRZ.
TOBACCO PIPE CLEANER.

No. 470,530.

Patented Mar. 8, 1892.



Witnesses
J. M. Spear
F. L. Middleton

Inventor
Wilhelm Wirz
By *Ellis Spear* Atty

UNITED STATES PATENT OFFICE.

WILHELM WIRZ, OF FRANKFORT, GERMANY.

TOBACCO-PIPE CLEANER.

SPECIFICATION forming part of Letters Patent No. 470,530, dated March 8, 1892.

Application filed October 3, 1891. Serial No. 407,654. (No model.)

To all whom it may concern:

Be it known that I, WILHELM WIRZ, of Frankfort-on-the-Main, in the Kingdom of Prussia, German Empire, have invented new and useful Improvements in Tobacco-Pipe Cleaners, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to improvements in tobacco-pipe cleaners.

The accompanying drawing shows a vertical section through the device with parts in side elevation.

In the receptacle *a* is suspended the boiler *b*, which is heated by the spirit-lamp *c*. By means of the tapped neck *d* of the boiler-cover, which serves, also, for filling purposes, the bent or curved pipe *e* can be fixed in the boiler. This pipe is closed at its lower end and is furnished close to the bottom of the boiler with perforations *f* and close below the boiler-lid with perforations *g*. Between these perforations *g* and *f* the pipe *e* is surrounded by the sheath *h*, which is connected by means of the slot *i* with the pin *k* so that the sheath can be moved by means of this pin *k* in such a manner that the holes *g* can be closed and the holes *f* opened; or the holes *f* can be closed and the holes *g* opened, or both the holes *f* and *g* can be opened. Over the pointed end of the pipe *e* is placed the pipe-stem to be cleaned, and if after the water boils the perforations *g* are opened the steam will escape; but if the perforations *f* are opened the water will run out, and when the two sets of perfo-

rations *f* and *g* are opened water mixed with steam will be allowed to run out.

What I claim, and desire to secure by Letters Patent of the United States, is—

1. In combination, the boiler *b*, the conduit-pipe leading therefrom and extending into said boiler to a point near the bottom and having the upper and lower openings leading from the boiler to the interior of the conduit, the means within the boiler for controlling said openings, and the operating connection extending to the outside, substantially as described.

2. In combination, the boiler *b*, the conduit-pipe extending from a point near its bottom outside the same and having the upper and lower openings, the sheath *h*, adapted to slide on the pipe between and over the openings, and the operating-pin *k*, extending to the outside, substantially as described.

3. In combination, the receptacle *a*, the boiler suspended in the upper part thereof, the lamp within the receptacle and below the boiler, the conduit-pipe leading from the boiler and having the upper and lower openings therein, and the means for controlling the outlet of the steam and hot water through the upper and lower openings of the conduit-pipe, substantially as described.

In witness whereof I have hereunto set my hand in presence of two witnesses.

WILHELM WIRZ.

Witnesses:

ALVESTO S. HOGUE,
JEAN GRUND,