(No Model.)

F. W. CARPENTER.

TOBACCO PIPE CLEANER.

No. 471,504. Patented Mar. 22, 1892.

Fig. 1.

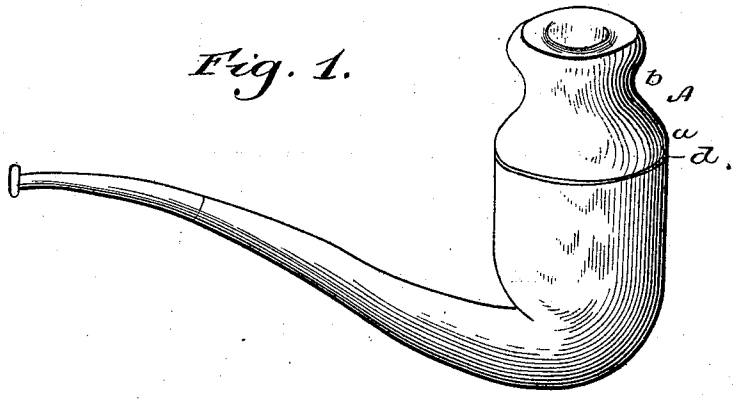


Fig. 2.

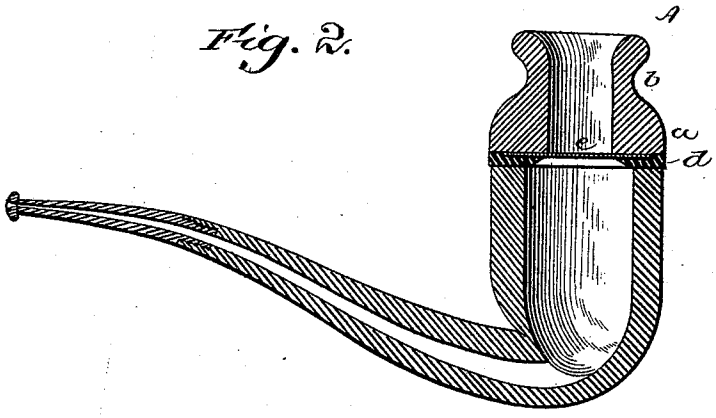
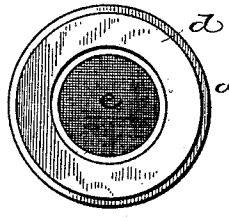


Fig. 3.



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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

FRANK W. CARPENTER, OF HIGH POINT, ASSIGNOR OF ONE-HALF TO ELIZA A. DEVENISH, OF OXFORD, NORTH CAROLINA.

TOBACCO-PIPE CLEANER.

SPECIFICATION forming part of Letters Patent No. 471,504, dated March 22, 1892.

Application filed April 11, 1891. Serial No. 388,574. (No model.)

To all whom it may concern:

Be it known that I, FRANK W. CARPENTER, a subject of the Queen of Great Britain, residing at High Point, in the county of Guilford and State of North Carolina, have invented certain new and useful Improvements in Tobacco-Pipe Cleaners; and I do hereby declare the following to be a full, clear, and exact description of the invention, reference being had to the accompanying drawings, which form part of this specification.

This invention has relation to tobacco-pipe cleaners, and has for its object the provision of a novel device for the use of pipe-smokers, by which tobacco-pipes of any shape or size may be readily and effectively cleaned when fouled by continued smoking and the accumulations of nicotine, &c., thoroughly removed without the necessity of washing or resorting to the disagreeable and only partially effective use of straws, wires, or the like.

My invention contemplates the use of a device by means of which the stem and bowl of a pipe may be cleaned by the action of the smoker's breath and while the contents of the bowl are burning, the cleaning-instrument consisting of a suitably-contrived mouth-piece having arranged transversely to the bore thereof a suitable perforated reticulated or open-work screen. The device when in use is applied to the mouth of the pipe-bowl and forcibly blown through, the effect being that the moist breath passing through the burning tobacco is highly heated and passes into the stem of the pipe as steam, thereby dissolving the accumulations of nicotine and other impurities and causing them to forcibly issue from the end of the stem or mouth-piece.

In the accompanying drawings, Figure 1 is a perspective view of a pipe of ordinary form with my improved cleaner applied to the bowl. Fig. 2 is a sectional view of the cleaner and a pipe to which it is applied. Fig. 3 is a plan view of the cleaner.

The cleaner A consists of a bell or trumpet shaped contrivance of any suitable size or material and preferably of the shape shown in the drawings, which is that of a short bell, of which *a* is the body and *b* the neck. The mouth of the bell is made of sufficient diameter to fit the top of the bowl of an ordinary pipe, and the walls are sufficiently thick to adapt the device to fit bowls of somewhat different diameters. A rubber, leather, or other suitable gasket *d* is secured to the mouth of the bell to form an air-tight joint between the cleaner and the pipe-bowl, and within the bell is fixed a perforated or reticulated partition, which serves as a guard or fender to prevent the contents of the pipe-bowl from being blown or sucked out into the mouth of the person using the device. This partition, which is lettered *e* in the drawings, may be made of wire-gauze, perforated metal, woven fabric, or any material which will serve as a guard and permit the passage of the breath. The upper end of the bell terminates in a suitable mouth-piece having its edge rounded so as to fit closely and comfortably against the lips of the user and allow the cleaner to be forcibly blown through without escape of breath outside the mouth-piece. The bore of the cleaner is contracted or narrowed, so as to concentrate the breath-pressure, and may be either of uniform diameter, as shown in the drawings, or convergent.

The device described may be made of wood, clay, metal, glass, or other material, and the perforated partition may be made integral with the body of the cleaner.

Having fully described my invention, I claim—

A tobacco-pipe cleaner consisting of a short open-ended tubular mouth-piece having an elastic edge adapted to be pressed against the mouth of a pipe-bowl, so that it may be blown through, and having a perforated screen arranged transversely to its central aperture to prevent the contents of the pipe from entering the cleaner, substantially as described.

In testimony that I claim the foregoing I have hereunto set my hand this 22d day of April, 1891.

FRANK W. CARPENTER.

Witnesses:
E. F. PASCHAL,
HENRY PETTIFORD.