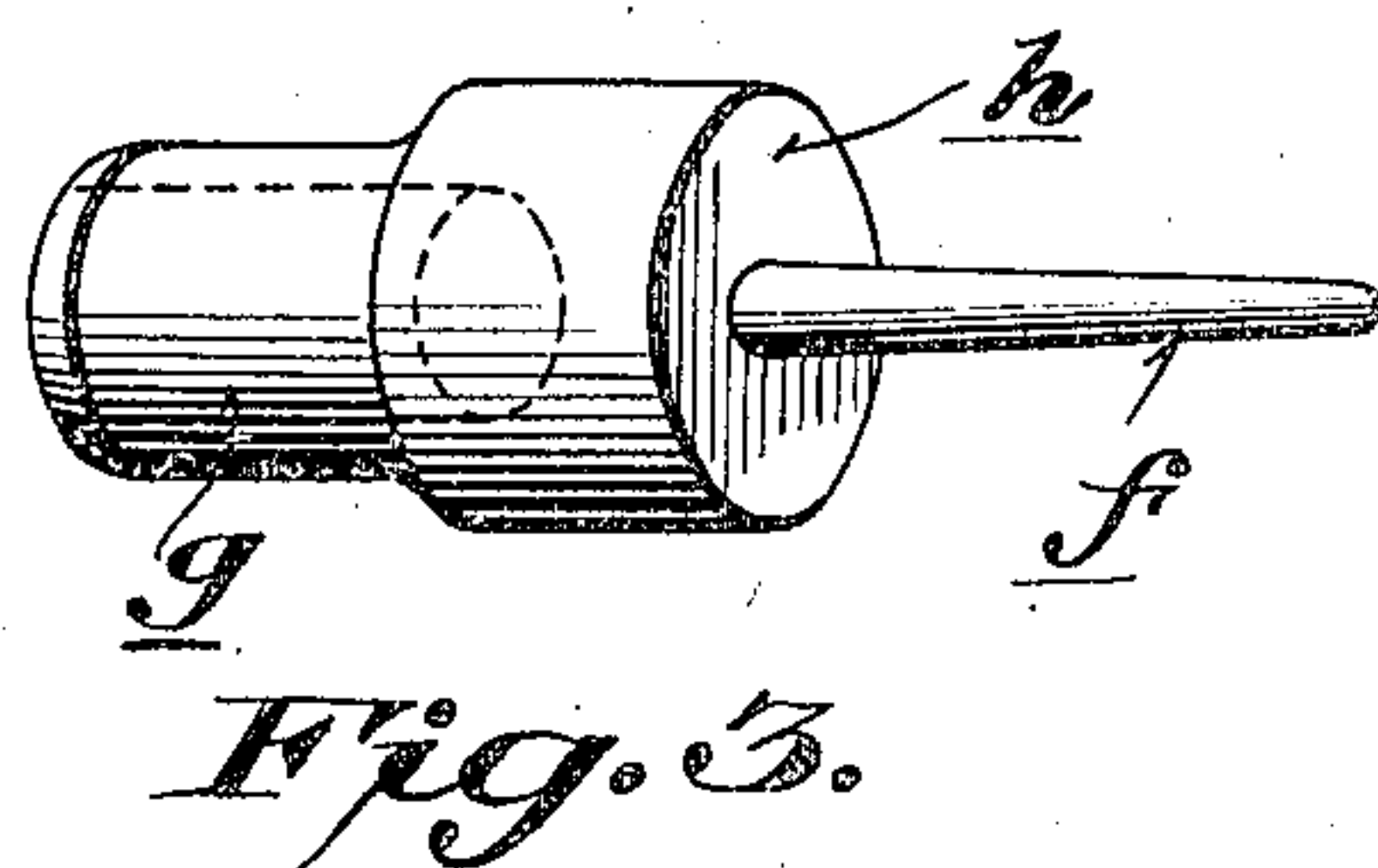
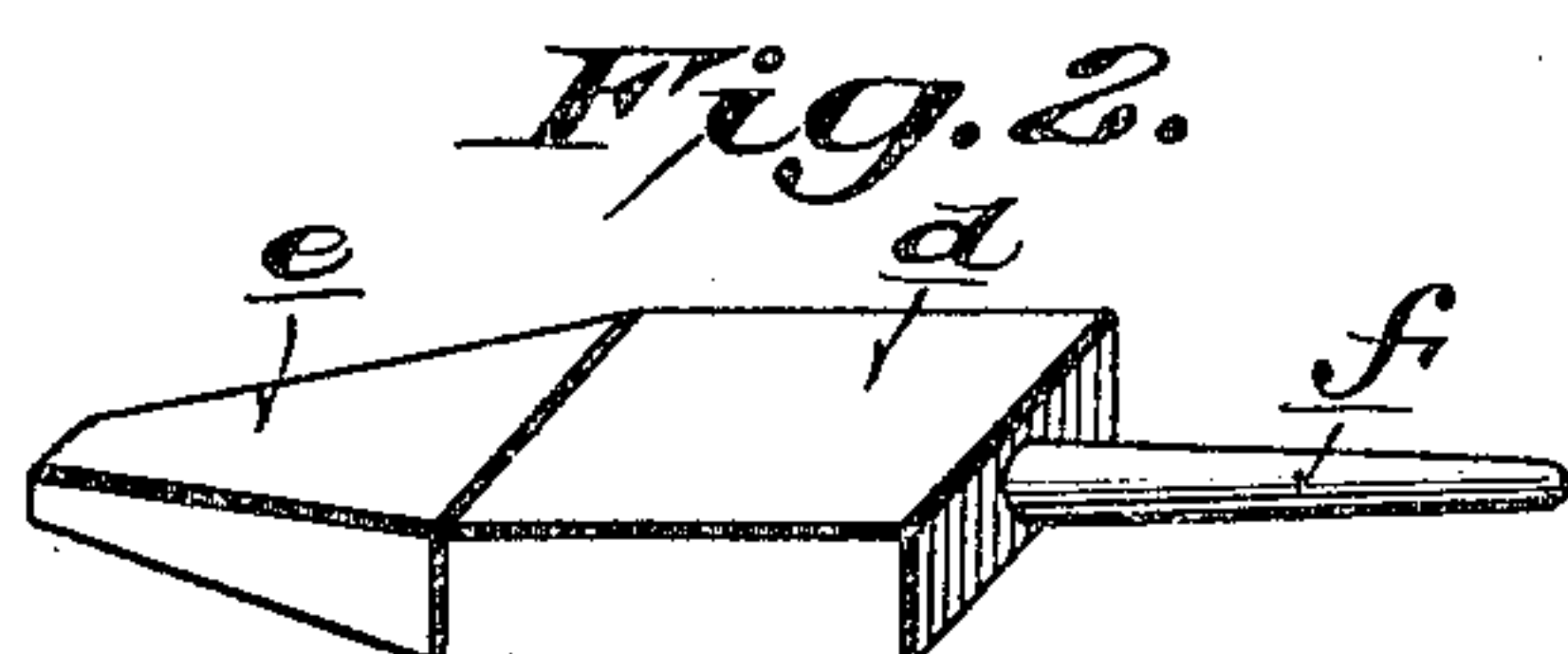
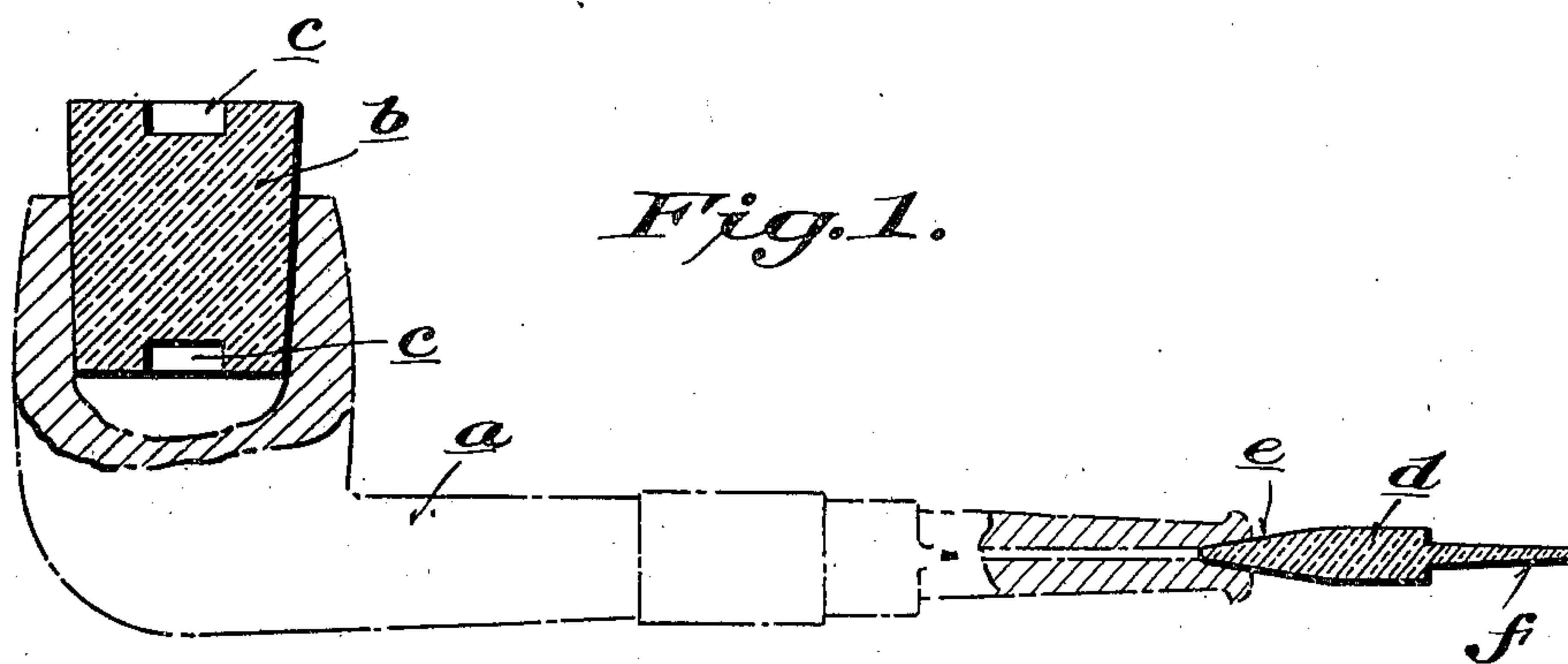


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E. H. HOLDEN.
DEVICE TO FACILITATE THE CLEANING OF TOBACCO PIPES.
FILED AUG. 5, 1921.



Edward Henry Holden INVENTOR.
BY *W. McLean* ATTORNEY.

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UNITED STATES PATENT OFFICE.

EDWARD HENRY HOLDEN, OF OLDHAM, ENGLAND.

DEVICE TO FACILITATE THE CLEANING OF TOBACCO PIPES.

Application filed August 5, 1921. Serial No. 490,106.

To all whom it may concern:

Be it known that I, EDWARD HENRY HOLDEN, a subject of the King of Great Britain and Ireland, and a resident of Oldham, county of Lancaster, England, have invented certain new and useful Improvements in Devices to Facilitate the Cleaning of Tobacco Pipes (for which I have filed applications in Great Britain under date of July 20, 1920, and October 4, 1920, Patent No. 169,859), of which the following is a specification.

My invention relates to devices to facilitate the cleaning of tobacco-pipes and the like, and consists of a combination of plugs of a form hereinafter set forth, whereby the bowl and stem orifices of the pipe or the like may be effectively plugged after a suitable cleansing fluid has been poured into the pipe or the like. The latter may then be vigorously shaken, and the pipe, cigarette or cigar holder cleansed in a cleanly and efficient manner.

Accordingly, it will be understood that the present invention primarily contemplates a novel apparatus for cleansing pipes or similar smoking articles by pursuing a thoroughly practical and reliable method, which involves the plugging up of the opposite ends of the article thereby to enable the same to receive a cleaning fluid which may be agitated to accomplish the cleaning operation.

Preferred and practical means for carrying out the invention are shown in the accompanying drawings, in which:—

Figure 1 is a view of a pipe showing the appliances of the present invention in operative position.

Figures 2 and 3 are perspective views of alternate forms of stem plug.

Similar reference numerals designate corresponding parts in the several figures of the drawings.

In carrying the invention into effect the pipe *a* having the usual bowl and stem portion is intended to have the bowl closed by the plug *b* for example, and the passage-way in the stem closed by the stem plug *d*. The said plugs *b* and *d* may be composed of cork, wood, rubber or composition, or any other suitable material, and the former is of cylindrical shape or in the form of a truncated cone, or otherwise shaped to render it adaptable as a plug to stop up the bowl opening, but not to occupy the whole

of the bowl. It may be provided on its top and bottom faces, or either, with a central circular recess *c*, the functions of such recesses being to permit of a more thorough and efficient agitation of the cleansing liquid in the pipe, to provide a better finger grip whilst being so agitated or shaken, to enable a better fit of the plug into the bowl, and to provide an "air space" on top of the liquid.

The stem plug *d* is a member so constructed as to render it applicable to various configurations of bores. In one construction it has a main body portion which may or may not be wedge-shape as at *e* terminating in a flattened tapered tongue which can tightly fit in the "slit" bore of stems formed with such an opening. The body portion also carries, either attached thereto or formed integrally a tapered "needle" or pin *f* which can tightly fit in circular section bores.

Or in a modification, the stem plug consists of a flexible or resilient tubular portion *h*, advantageously of india-rubber or the like, which is formed at one end with a closure wall. Said tubular member may be cylindrical or of any other desired hollow configuration so that it may slip over the mouthpiece of the stem, and effectively close same. A rigid or semi-rigid tapered "needle" or pin *f* is formed with or attached to such stem member which can tightly fit in stems having circular section bores. The pin may be mounted in a socket in the end wall of the tubular member co-axial therewith.

Thus, with a stem plug of the foregoing form, the pin may be used to prick out the stem orifice or for temporarily plugging the same in the case of a straight or only slightly curved stem, and for stems with a slotted orifice, or for curved mouth-pieces, the plug member may be reversed and the tubular portion fitted over same with a similar object in view.

I claim:

1. An apparatus for cleaning tobacco pipes and the like including in combination, a bowl plug and a stem plug, the said stem plug having means for closing the end of the stem and also having a pin projecting therefrom.

2. An apparatus for cleaning smoking-tobacco holders including in combination, a plug for the tobacco receiving portion of the holder, and a stem plug for the mouth

piece end of the holder, said stem plug consisting of a body having a socket for receiving the end of the stem and also having a projecting needle extension.

5 3. An apparatus for cleaning smoking-tobacco holders including in combination, a plug for the tobacco receiving portion of the holder, and a stem plug for the mouth

piece end of the holder, said stem plug consisting of a body having means for closing 10 the passage-way in the stem, and a needle carried by the end of the body opposite said means for closing the passage-way.

Dated this 11th day of July 1921.

EDWARD HENRY HOLDEN.