

(No Model.)

W. C. & W. D. CULVER.
PIPE CLEANER.

No. 569,371.

Patented Oct. 13, 1896.

Fig. 1.

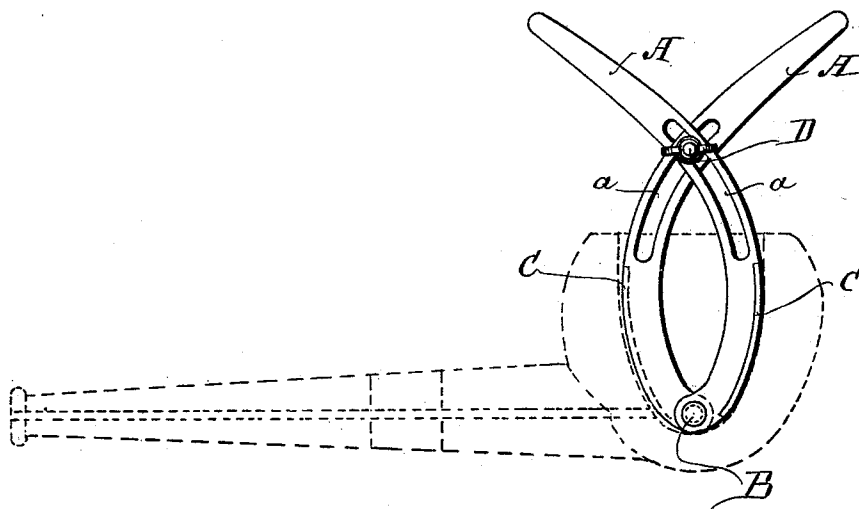
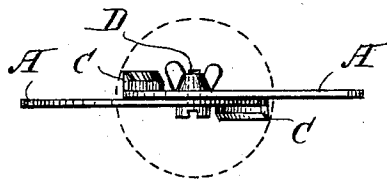


Fig. 2.



Witnesses:

Amos Randolph
J. H. Hurling

Inventor's

William C. Culver.
William D. Culver.

UNITED STATES PATENT OFFICE.

WILLIAM C. CULVER, OF JERSEY CITY, NEW JERSEY, AND WILLIAM D. CULVER, OF NEW YORK, N. Y.

PIPE-CLEANER.

SPECIFICATION forming part of Letters Patent No. 569,371, dated October 13, 1896.

Application filed March 6, 1896. Serial No. 582,051. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM C. CULVER, of Jersey City, in the county of Hudson and State of New Jersey, and WILLIAM D. CULVER, of the city and State of New York, citizens of the United States, have invented an Improvement in Pipe-Cleaners, of which the following is a specification.

Tobacco-pipes are very liable to become obstructed in the bowl portion by the ashes and other refuse material adhering to the interior of the bowl, and in consequence of the pipe-bowls varying in size a rigid scraper or similar tool is not well adapted for cleaning out such bowls.

The present invention relates to a cleaner for tobacco-pipes composed of two curved arms pivoted together and having a cutting edge or edges upon the exterior surfaces of such arms, so that the cleaner can be expanded or contracted to suit the size of the bowl, and when introduced into such bowl and expanded the rotation of the bowl upon the cleaner, or of the cleaner within the bowl, causes the edges to cut or scrape the interior surface of the pipe-bowl to remove adhering substances and clean such bowl.

In the drawings, Figure 1 represents the cleaner as introduced within the pipe-bowl, and Fig. 2 is a plan view representing the cutting edges of the cleaning-arms as projecting.

The two curved arms A A are pivoted together at B, and the swinging ends of the arms advantageously lap one upon the other, and the configuration of the arms is such as to be adapted to the curved interior surface of the ordinary pipe-bowl, and by spreading such arms farther apart or contracting them the cleaner is adapted to different sizes of pipe-bowls.

There is a cutting edge at C at one side of

the exterior edge of one of the arms, and it is usually preferable to employ similar cutting edges on both arms, as at C C, and each cutting edge is curved and it may project similar to a narrow curved knife-edge, as shown in Fig. 2, so that it acts to the best advantage in scaling off and cutting away any materials that may adhere to the interior surface of the pipe, but such cutting edge may be narrow and formed upon the edge of the arm.

This cleaning implement is cheap to construct and it occupies but little space in the pocket and is readily adapted to use within the bowl of the tobacco-pipe whenever necessary.

The clamp-screw D, passing through slots in the curved arms that cross each other, serves to hold the parts firmly while in use.

The position of the pipe is indicated by dotted lines in Fig. 1.

We claim as our invention—

1. The expansible tool for cleaning pipe-bowls composed of two arms pivoted together at their ends and having cutting edges adjacent to the pivot and extending along the outer edges of the arms, the free ends of such arms forming handles for manipulating the tool, substantially as set forth.

2. The tool for cleaning pipe-bowls, composed of two slotted arms pivoted together and having cutting edges at the exterior curved edges of the arms and a clamp-screw passed through the slots, substantially as set forth.

Signed by us this 4th day of March, 1896.

WILLIAM C. CULVER.
WILLIAM D. CULVER.

Witnesses:

GEO. T. PINCKNEY,
S. T. HAVILAND.