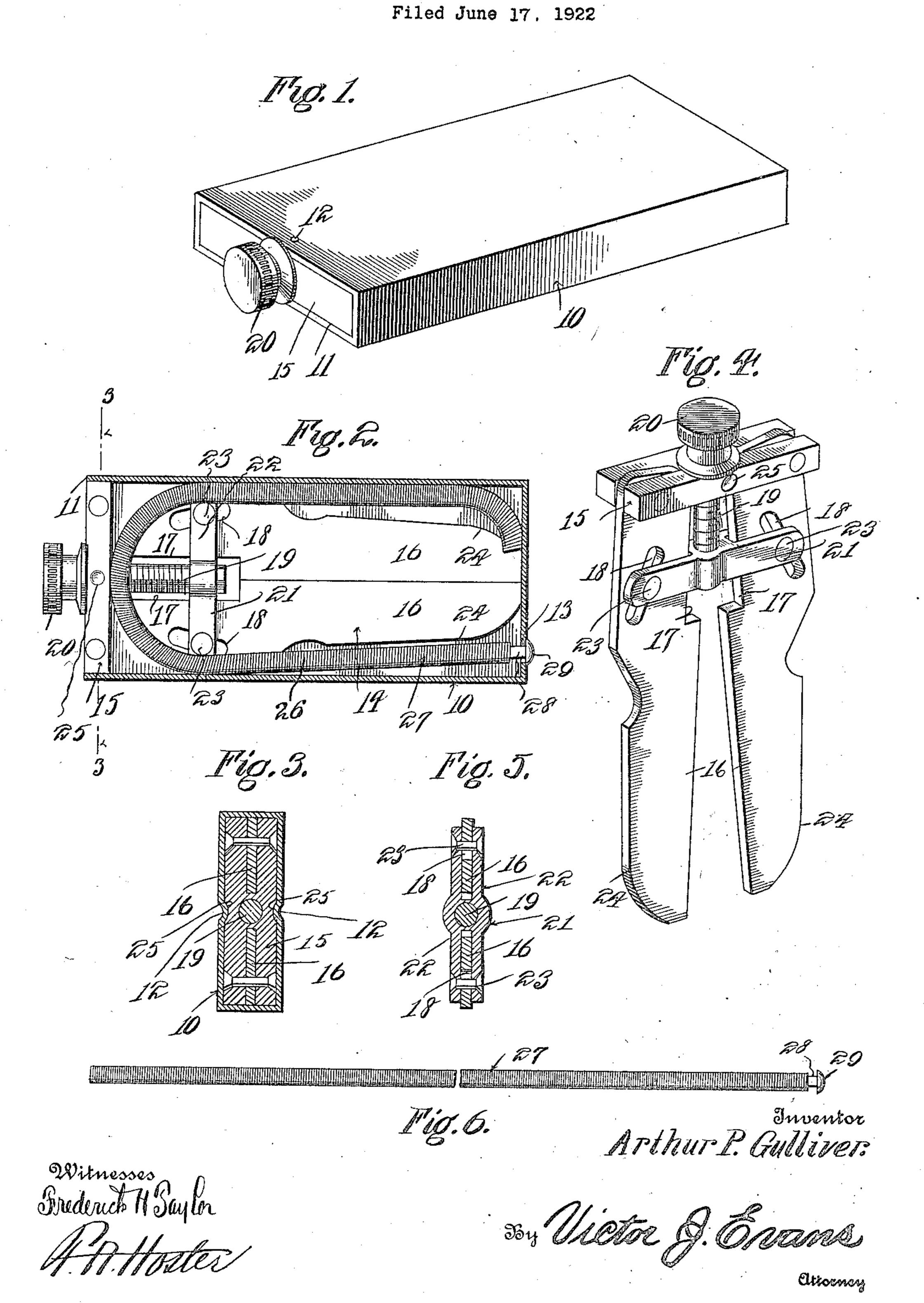
A. P. GULLIVER

PIPE CLEANING DEVICE



UNITED STATES PATENT OFFICE.

ARTHUR P. GULLIVER, OF BROCKTON, MASSACHUSETTS.

PIPE-CLEANING DEVICE.

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To all whom it may concern:

Devices, of which the following is a specification.

An object of the invention is to provide a 10 simple and effective device which will be of rod 19 terminating at its outer end in a

for use in cleaning smoking pipes.

15 features the provision of a casing or re- at the point of swiveling the screw rod 19 ing any deposits from within the bowl, said cutting members 16. member having a part thereof constituting. Now it will be apparent that when the means also removably carried in the recepposed in the bowl of the pipe, rotation of the tacle for effectively cleaning the stem of the pipe.

reference is to be had to the accompanying portion of the cutting members apart so that drawing constituting a part of this specifica- opposed edges 24 of the cutting members tion, in which similar characters of refer- will engage the inner wall of the pipe so

30 views, and in which:

cleaning device,

showing the arrangement of the bowl and moved deposits or particles therefrom. It 90 35 stem cleaning members in the receptacle,

Figure 3 is a vertical transverse sectional view showing the arrangement and manner of securing the bowl cleaning device in the receptacle to constitute a cover therefor,

bowl cleaning member of the device,

Figure 5 is a horizontal sectional view taken through the bowl cleaning member, and

cleaning member of the device.

Referring more particularly to the views, tion thereto by the locking beads. I provide a casing or receptacle 10, prefer- A stem cleaning member 26 also constiparticularly of a plate 15 on which a plu-through the central portion of the pipe and

rality of cutting members 16 are mounted Be it known that I, Arthur P. Gulliver, to swing. The cutting members are adapted a citizen of the United States, residing at to swing toward or away from each other Brockton, in the county of Plymouth and and each is provided with a cut-out portion 60 5 State of Massachusetts, have invented new 17 adjacent the end having pivotal connecand useful Improvements in Pipe-Cleaning tion with the plate. Each cutting member is also provided with a slot 18 and having inverted engagement with the plate 15 and passing transversely therethrough is a screw 65 a compact nature so that it can be readily suitable knob 20 and having its inner end carried in the pocket and which is adapted pivotally connected to the medial portion of the strap 21. The strap 21 is preferably The invention contemplates among other formed into sections 22 which are connected 70 ceptacle which is adapted to removably con-therein and passing through the extremity tain a stopper member for use in cleaning of the sections are transverse pins 23 also the bowl of a pipe and in cutting or remov- passing loosely through the slots 18 in the

a cover for the receptacle with suitable free ends of the cutting member 16 are disscrew rod 19 will through the medium of the strap 21 and pins 23 thereof operating in 80 In the further disclosure of the invention the slots 18, tend to spread the free or lower ence denote corresponding parts in all the that upon rotating the bowl cleaning de- 85 vice in the pipe any deposits on the inner Figure 1 is a perspective view of the pipe wall will be cut or removed therefrom and can be subsequently removed from the bowl Figure 2 is a vertical sectional view by inverting the same and scraping the rewill be apparent by referring to the views that the plate 15 constitutes a cover for the open end of the casing 10 so that when the member 14 is placed therein the plate will effectively close the casing. The plate is 95 Figure 4 is a perspective view of the provided with a plurality of opposed indentations 25 into which the beads 12 are adapted to spring when the member 14 is arranged in the casing thus holding the member within the casing so that the plate 100 Figure 6 is a perspective view of the stem 15 will clearly constitute a cover for the casing and which will be held in locked rela-

ably of an elongated nature and having an tutes a part of my device and consists more 105 open end 11, said casing at its open end be-particularly of a flexible spring like member ing provided with a plurality of opposed in- 27 in one end of which is rigidly secured a wardly struck locking beads 12 and its closed shank 28 terminating in a knob 29. It will end having an opening 13. A pipe bowl be readily apparent that the stem cleaning cleaning member 14 is adapted to normally member is used to clean out the stem of a 110 55 repose in the casing 10 and consists more pipe and is simply forced longitudinally

deposits in the stem. After the bowl clean-5 member 26 is adapted to have its free end member in the casing with the plate thereof tom or closed end of the casing and the said stem cleaning member is then pushed into the casing and will curl up therein as shown 10 until only the knob will appear exteriorly of and a wall of the casing whereby the said stated.

therefor and a stem cleaning member which 20 when arranged in the casing tends to coil thus not only securing the stem cleaning member in the casing but also tending to more securely hold the bowl cleaning mem-25 ber in the casing inasmuch as the casing is of meager width and after the bowl cleaning member has been arranged therein there is only left sufficient space between a face of the bowl cleaning member and a wall 30 of the casing to permit of the insertion of the stem cleaning member therein thus causengages and the face of the bowl cleaning being adapted to constitute a cover for the 35 member which it engages.

What I claim is:—

1. In combination with a casing having an opening in its closed end, a member for insertion in the casing, said member in-

rotated therein to remove or cut loose any cluding a plate having a plurality of op- 40 posed indentations therein, locking beads on ing member 14 has been arranged in the the casing and adapted to spring into the casing 10 as mentioned the stem cleaning indentations of the member to hold the inserted through the opening 13 in the bot-constituting a cover for the casing and a 45 second member for insertion in the opening in the closed end of the casing and adapted to frictionally engage a face of the member the casing and this knob together with the second member will be frictionally held in the 50 shank 28 will close the opening through casing and will frictionally bind the first which the stem cleaning member extends as mentioned member to more securely hold the same in the casing.

Thus it will be seen that the pipe cleaning 2. In combination with a casing, a memdevice comprehends simply a casing, a bowl ber for insertion therein and comprising a 55 cleaning member normally held in the casing plate, a plurality of cutting members on and having a portion constituting a cover the plate and having their inner ends in pivotal engagement therewith and means movably supported on the plate and having about the bowl cleaning member therein connection with the cutting members for 60 relatively moving the free ends thereof, said members being adapted to normally lie within the said casing with the plate adapted to

constitute a cover for the casing.

3. In combination with a casing, a mem- 65 ber for insertion therein and comprising a plate, a plurality of cutting members on the plate and having their inner ends in pivotal engagement therewith and means movably supported on the plate and having connec- 70 ing the stem cleaning member to frictionally tion with the cutting members for relatively bind with the wall of the casing which it moving the free ends thereof, said members casing and means on the casing and engaging the plate to secure the same in position 75 to constitute a closure for the casing.

> In testimony whereof I affix my signature. ARTHUR P. GULLIVER.