

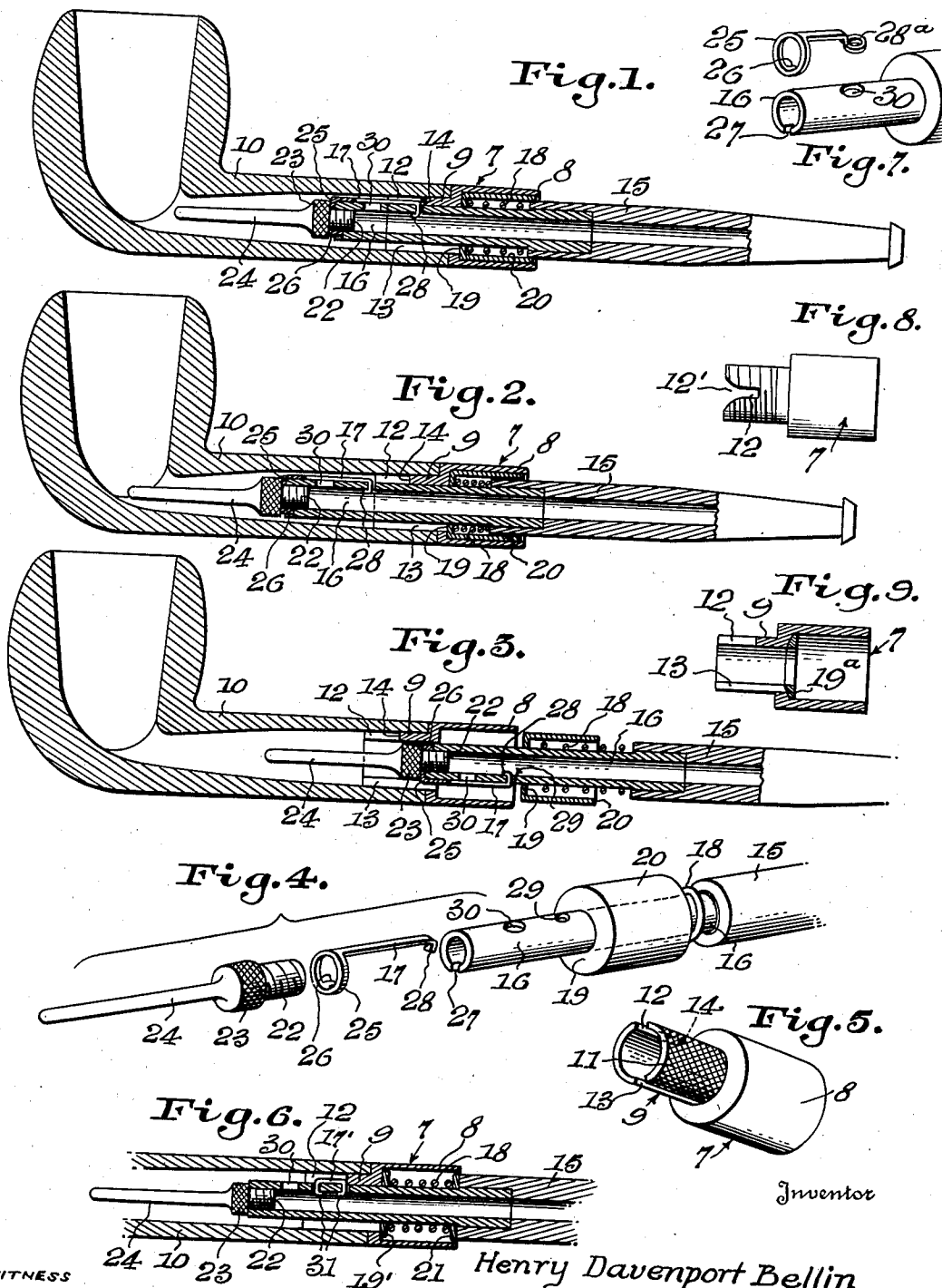
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H. D. BELLIN

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SMOKING PIPE OR THE LIKE

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WITNESS
H. Woodards

Henry Davenport Bellin
By *H. D. Bellin*
Attorneys

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SMOKING PIPE OR THE LIKE

Henry Davenport Bellin, Providence, R. I., assign-
or to Davenport Ltd. Incorporated, Providence,
R. I., a corporation of Rhode Island

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The invention relates to smoker's equipment such as pipes, cigarette holders and cigar holders and is shown in connection with a pipe, the principal object of the invention being to provide a simple, inexpensive and efficient connection between the mouthpiece and the stem of the pipe or the like of such nature as to permit easy removal of the mouthpiece for cleaning purposes, simply by pushing forwardly on said mouthpiece and turning the same to a predetermined position.

Another object of the invention is to provide a stem clean-out finger which is operable by forward pushing of the mouthpiece.

With the foregoing and minor objects in view, the invention resides in the novel subject matter hereinafter described and claimed, description being accomplished by reference to the accompanying drawing.

Figure 1 is a longitudinal sectional view partly in elevation showing the parts assembled for use.

Figure 2 is a view showing the mouthpiece and parts connected thereto pushed forwardly.

Figure 3 is a view similar to Figs. 1 and 2 but illustrating the manner in which the mouthpiece and parts connected thereto may be rearwardly withdrawn.

Figure 4 is a disassembled perspective view showing a number of the parts included in the above described views.

Figure 5 is a perspective view of the stem-carried sleeve.

Figure 6 is a fragmentary view similar to a portion of Fig. 1 but showing a modification.

Figures 7, 8 and 9 are detail views showing further variations.

In the drawing above briefly described, the numeral 7 denotes a sleeve having a relatively large cylindrical rear end 8 and a comparatively small cylindrical front end 9, the latter being receivable in the rear end of a stem 10, such as a pipe stem. The sleeve portion 9 may be externally roughened as indicated at 11 in Fig. 5 to be tightly cemented in the stem 10 or it may be provided with screw threads or other means for holding it in place.

A relatively short longitudinal slot 12 and a comparatively long longitudinal slot 13 are formed in the small sleeve end 9, and both of said slots open through the front extremity of said sleeve end. The slot 12 is provided with a closed rear end 14 while the slot 13 extends rearwardly into the large sleeve end 8.

A mouthpiece 15 is provided with a forwardly projecting smoke tube 16 which is secured thereto

in any appropriate manner. The front extremity of the mouthpiece 15 is received in the rear portion of the enlarged sleeve end 8 and may be forwardly slid therein as will be clear from Fig. 2. The smoke tube 16 is provided with a key, 17 in Figs. 1 to 4 and 17' in Fig. 6, said key being normally seated in the short slot 12. A coiled spring 18 is disposed in the large end 8 of the sleeve 7 around the tube 16 and said spring exerts a rearward force on the mouthpiece 15 and the smoke tube to hold the key 17 or 17' against the closed rear end 14 of the aforesaid slot 12. It is preferable that a washer be provided to abut the front end of the spring 18. In Figs. 1 to 4, a washer 19 is shown, connected with a thin sleeve 20 which surrounds the aforesaid spring 18. In Fig. 6, a plain washer 19' is illustrated. In this view, I have also illustrated another washer 21 abutting the rear end of the spring 18 and the front end of the mouthpiece 15, whereas in Figs. 1 to 4, the spring 18 simply abuts the front extremity of said mouthpiece.

I have shown a screw plug 22 threaded into the front end of the smoke tube 16 and having a head 23 from which a stem clean-out finger 24 projects forwardly. In Figs. 1 to 4, a washer 25 surrounds the plug 22 and is clamped against the front extremity of the smoke tube 16 by the head 23, said washer being held against turning by providing it with a lug 26 receivable in a notch 27 in said smoke tube. The washer 25 is secured to the front end of the key 17 to anchor the latter, and the rear end of said key is provided with a hook 28 which is hooked into a small opening 29 in the smoke tube. In the present disclosure, the key 17 spans the smoke admission opening 30 which is formed radially in the smoke tube 16 but said key is sufficiently narrow to prevent obstruction of said opening 30. By fastening the key by means of the washer 25 and hook 28, manufacture and assembly are facilitated.

In Fig. 6, the key 17' simply has its ends passed through openings in the smoke tube, said ends being clinched as shown at 31.

The mouthpiece and stem are normally properly connected to permit use of the pipe or the like and whenever the stem clean-out finger 24 is to be operated, it is simply necessary to push forwardly on the mouthpiece 15, thus forwardly moving the smoke tube 16 and said finger 24 with respect to the stem 10. When the forward pressure on the mouthpiece 15 is relieved, the spring 18 immediately restores the parts to normal. Whenever it is desired to detach the mouthpiece and parts connected therewith from the stem

for cleaning, said mouthpiece is pushed forwardly at least as far as shown in Fig. 2, moving the key 17 or 17' out of the slot 12, and this same movement operates the finger 24 to clean the stem.

- 5 The mouthpiece is then turned to align the key with the long slot 13 which extends into the large end 8 of the tube 7. Thus, the mouthpiece and connected parts may be rearwardly withdrawn as shown in Fig. 3, the key then traveling through
10 said slot 13. Reassembly may be effected with equal ease by a reversal of these operations.

While excellent results may be obtained from the details shown and described and they are preferably followed, variations may of course be made within the scope of the invention as
15 claimed. As examples, attention is invited to Figures 7, 8 and 9. In Fig. 7, a hook 28^a is shown on the rear end of the key 17, said hook being in the form of a ring for reception in the smoke
20 inlet 30, which construction may well be used instead of that illustrated more particularly in Fig. 4, if desired.

Figure 8 shows that the front end of the slot 12 may be flared as indicated at 12' to facilitate
25 insertion of the key 17 or 17'. Obviously, the slot 13 may be flared in the same manner and for the same purpose.

In Figure 9, a cupped washer 19^a is shown corresponding to the washer 19' of Fig. 6. The
30 internal portion of the sleeve 7 which abuts this washer 19^a may be somewhat concave as shown. When the spring 18 pushes the washer 19^a forwardly into tight contact with the coating portion of the sleeve 7, a very effective air seal is
35 provided to prevent the entrance of any more air than necessary when smoking. The washers 19 and 19' are also, of course, held forwardly against the coating internal portion of the sleeve 7 by the spring to exclude air as much as possible.
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I claim:

1. In a pipe or the like, a sleeve having a relatively large rear end and a relatively small front end, the latter being insertible into the rear end
45 of a stem, said small front end of said sleeve having two circumferentially spaced longitudinal slots both of which open through the front extremity thereof, one of said slots being closed at its rear end, the other of said slots extending
50 rearwardly into said large rear end of the sleeve, a mouthpiece having its front end received for

forward sliding in said large rear end of said sleeve, a smoke tube secured to and projecting forwardly from said mouthpiece, said smoke tube extending forwardly through said small end of said sleeve and having a key normally seated in
5 said one of said slots, and a spring in said large end of said sleeve and exerting rearward force on said mouthpiece and smoke tube to hold said key against the closed rear end of said one of said slots; said key being receivable in the other of
10 said slots, to permit rearward withdrawal of said mouthpiece and smoke tube from said sleeve, when said mouthpiece and smoke tube are first pushed forwardly to move said key from said one of said slots and then turned to align said key
15 with the other of said slots.

2. A structure as specified in claim 1; said smoke tube being closed at its front end and having a radial smoke admission opening which is disposed upwardly when said key is in said one
20 of said slots.

3. A structure as specified in claim 1; together with a washer secured to the front end of said key and abutting the front end of said smoke tube, a plug passing through said washer and
25 threaded into said front end of said smoke tube, said plug having a portion abutting said washer to secure the same in place, and a hook on the rear end of said key and hooked into an opening in said smoke tube.
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4. A structure as specified in claim 1; together with a washer secured to the front end of said key and abutting the front end of said smoke tube, a plug passing through said washer and threaded into said front end of said smoke tube,
35 said plug having a portion abutting said washer to secure the same in place, and a hook on the rear end of said key, said hook being in the form of a ring, said smoke tube having a smoke inlet opening into which said ring is hooked.
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5. A structure as specified in claim 1; together with a washer in said large end of said sleeve and contacting with the shoulder formed at the juncture of the large and small diameters of said sleeve, said washer abutting the front end of said
45 spring and being pressed forwardly against said shoulder by means of said spring to exclude as much air as possible, the inner edge of said washer having snug contact with the periphery of said smoke tube.
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HENRY DAVENPORT BELLIN.