

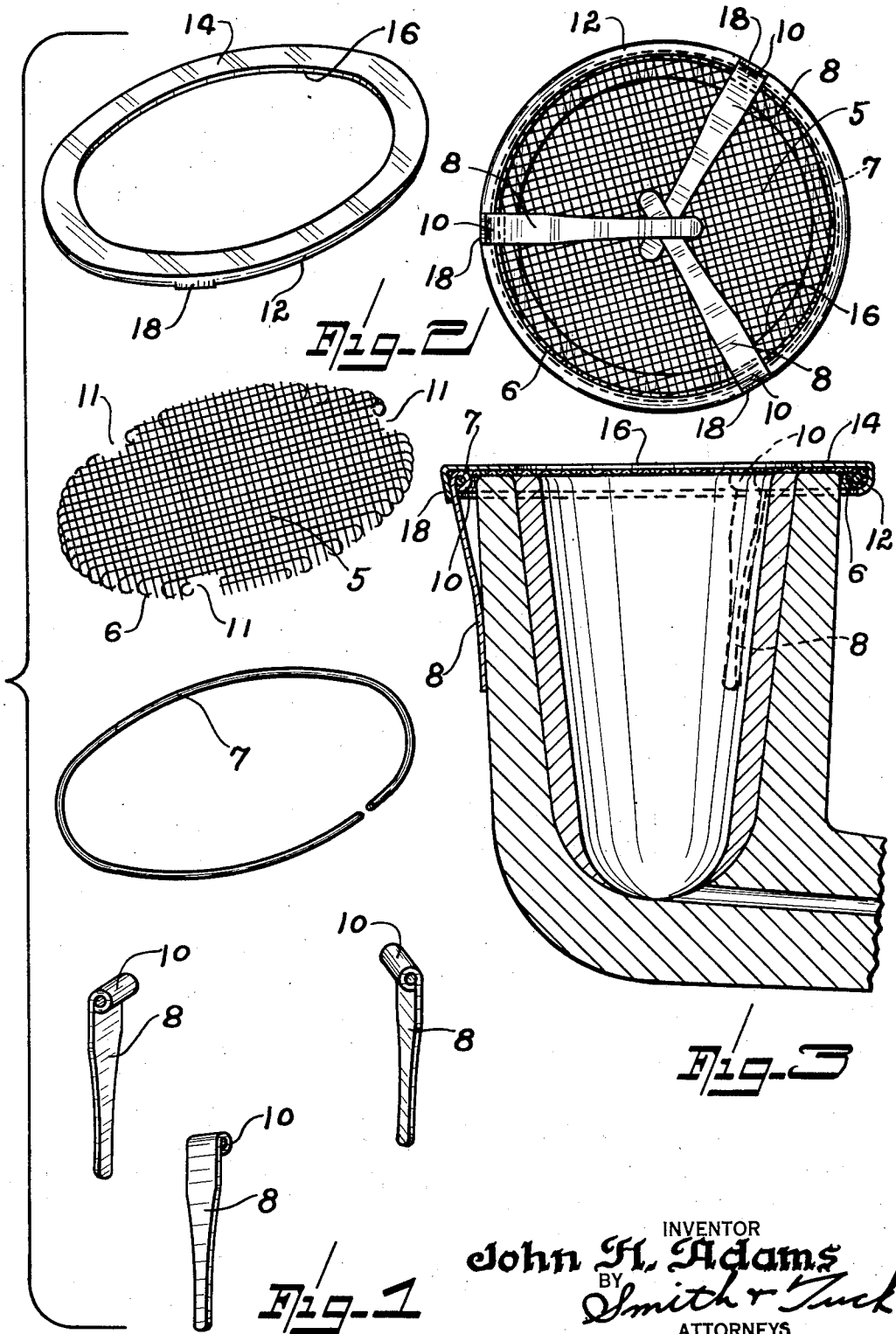
Aug. 6, 1935.

J. H. ADAMS

2,010,708

FOLDABLE SCREEN FOR PIPES

Filed Oct. 3, 1934



INVENTOR
John H. Adams
BY
Smith & Tuck
ATTORNEYS

UNITED STATES PATENT OFFICE

2,010,708

FOLDABLE SCREEN FOR PIPES

John H. Adams, Seattle, Wash., assignor to
Wallace H. Foster

Application October 3, 1934, Serial No. 746,749

6 Claims. (Cl. 131-12)

My present invention relates to the pipe smoking art and more particularly to a foldable screen for pipes.

In recent years there has been a marked swing toward pipe smoking. Many persons, however, deny themselves the pleasure of a pipe when driving an automobile, or when engaged in other forms of sport where the smoking of a pipe, unprotected, is a constant source of hazard both to the inflammable material around them and also to their own clothing.

My present invention is intended to provide a compact, easily carried screen for a pipe which the user may attach to his favorite pipe when conditions indicate the desirability of using a screen.

Other and more specific objects will be apparent from the following description taken in connection with the accompanying drawing, wherein Figure 1 is a perspective view showing in exploded relationship the various parts making up my foldable screen.

Figure 2 is a bottom plan view of my screen with the retaining arms folded into their carrying position.

Figure 3 is a cross-sectional view through my screen and showing the manner in which it is attached to a pipe.

Referring to the drawing, throughout which like reference characters indicate like parts, 5 indicates the screen used with my device, this may be of any desired type, although I find it most convenient to use a woven wire screen. At its edges I prefer to provide a roll as at 6 so as to engage the retaining wire 7. Wire 7 is arranged to stiffen the screen and also to provide the pivot or hinge-pin for a plurality of retaining arms 8. These arms are rolled over at their upper extent as at 9 so that they may be threaded onto wire 7. Screen 5 is cut away as at 11 so as not to interfere with the free action of the arms. After arms 8 have been threaded onto wire 7 the wire is compressed somewhat then allowed to expand so as to engage the rolled over portion of screen 5. This whole assembly then is placed within the rolled over edge 12 of frame 14. Frame 14 should be of such a size that the opening 16 will be as large as the bore of the pipes with which it is to be used and it should, further, have sufficient diameter so that when the arms 8 are in position, the rolled over portion 10 of the arms will be outside the periphery of the pipe bowl.

When the screen wire and the arm assembly is placed inside of frame 14, the same is rolled over substantially to the form shown in Figure 3

at 12. This secures the screen in place and the wire 7 prevents any sagging of the screen. Frame 14 must be provided with unrolled portions of the downwardly extending flange 18 as at 18, one such unrolled portion for each arm 8. Screen 5 must be so placed that openings 11 match up with the unrolled portions 18. When so arranged the wire 7 is held up against the under surface of frame 14 and the downwardly extent of lugs 18 form a stop or backing, as is illustrated in Figure 3, for arms 8, preventing them being revolving outwardly and allowing the natural resiliency of arms 8 to securely hold the device against the pipe bowl.

It is believed it will be apparent that if a pipe bowl is of a different shape from that indicated in Figure 3 it may be necessary to distort, the portion of arm 8 indicated as straight in the drawing, so as to make it conform to the particular pipe it is to be used with. For this reason arms 8 should be of material which is resilient but which can be deformed to make it suit the individual pipe the device is to be used with.

The folded position of arms 8 is indicated in Figure 2. It will be apparent that the positioning of arms 8 should be as indicated in Figure 3 so that they will be free to revolve towards the screen and to lay flat against the screen wholly within the space provided by the downwardly extending flange 12. When this is effected this device provides a screen which may be carried very easily, the whole device being slightly larger than half a dollar and with the arms folded in, as indicated, it can be carried without fear of damage. When it is desired to use the device, the arms can be unfolded and slipped over the pipe bowl.

The arms, because of their resilience, engage the pipe securely, yet allow the screen device to be removed easily as for filling the pipe and the like.

The foregoing description and the accompanying drawing are believed to clearly disclose a preferred embodiment of my invention but it will be understood that this disclosure is merely illustrative and that such changes in the invention may be made as are fairly within the scope and spirit of the following claims.

Having thus fully described my invention, what I claim as new and desire to secure by Letters Patent is:

1. A pipe cover comprising a screen and frame therefor, a wire ring reinforcing the screen, and clamping arms pivotally mounted on said ring.
2. In a cover for smoking pipes, the combina-

tion with a screen, of a retaining wire for the screen, resilient arms on said wire, and a frame adapted to secure said parts in related position.

- 5 3. In a cover for smoking pipes, the combination with a screen, of a retaining wire, resilient clamping arms pivotally mounted on said wire, and a frame for securing said parts in related position.
- 10 4. In a cover for smoking pipes, the combination with a screen having a peripheral flange, a retaining wire within the flange, and an annular frame for said screen, of foldable retaining arms on said wire adapted to frictionally engage the bowl of said pipe.
- 15 5. In a pipe cover, the combination with a screen having a peripheral flange and spaced

notches in said flange, a wire ring retained within said flange and forming a bead, and an annular frame having spaced lugs thereon, said frame having a spring flange engaging said bead, of resilient clamping arms pivotally mounted on said wire ring engaging said spaced notches and lugs, whereby said arms may be folded inwardly against said screen, when not in use.

6. The combination with a circular screen having a notched, annular flange, a wire ring retained in said flange, and resilient clamping arms pivoted on said ring, of a flat annular frame enclosing the bead, and bearing lugs on said frame for holding the arms in operative position.

15 JOHN H. ADAMS.