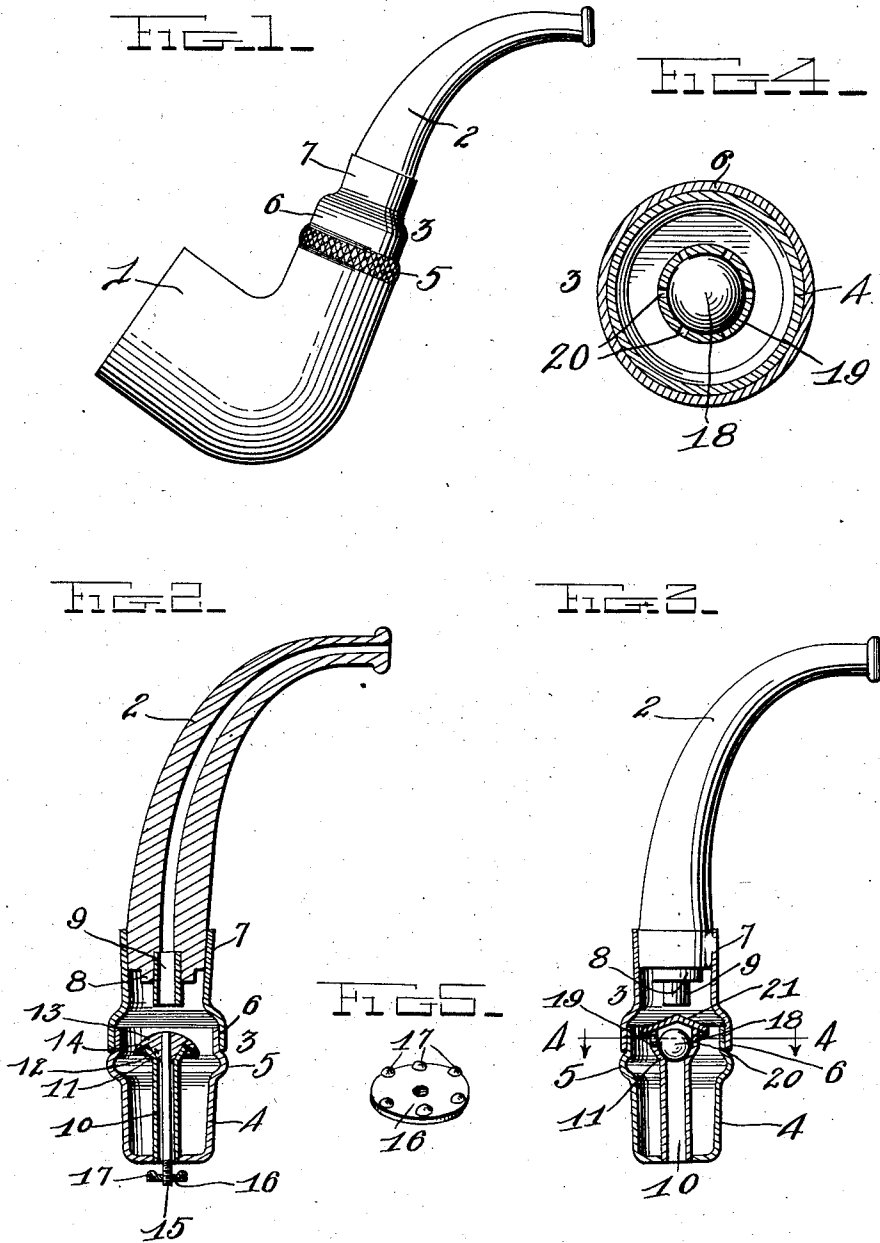


M. RASMUSSEN.
SMOKING PIPE.
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UNITED STATES PATENT OFFICE.

MARTIN RASMUSSEN, OF RACINE, WISCONSIN.

SMOKING-PIPE.

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To all whom it may concern:

Be it known that I, MARTIN RASMUSSEN, a citizen of Denmark, who have declared my intention of becoming a citizen of the United States, residing at Racine, in the county of Racine and State of Wisconsin, have invented certain new and useful Improvements in Smoking-Pipes; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in smoking pipes.

One object of the invention is to provide a pipe having an improved means for preventing the nicotin from being drawn up into the mouth of the smoker and for catching and preventing saliva from entering the bowl of the pipe.

Another object is to provide a pipe having means whereby the draft through the stem and bowl of the pipe is automatically stopped after each draw thereby preventing smoke from being emitted from the pipe except when the latter is smoked.

With these and other objects in view the invention consists of certain novel features of construction, combination and arrangement of parts as will be more fully described and particularly pointed out in the appended claims.

In the accompanying drawings; Figure 1 is a side view of my improved pipe; Fig. 2 is an enlarged longitudinal sectional view through the stem and bowl connection of the same; Fig. 3 is a side view of the stem showing a modified construction of the valve contained in the bowl connection, the latter and said valve being shown in section; Fig. 4 is a horizontal sectional view on the line 4-4 of Fig. 3; and, Fig. 5 is a detail view of the stop nut for the valve shown in Fig. 2 of the drawing.

Referring more particularly to the drawings 1 denotes the bowl and 2 denotes the stem of my improved pipe, said bowl and stem may be of any suitable shape or form and constructed of any suitable material. Adapted to be engaged with the inner end of the stem and to be inserted into the inner end of the pipe bowl is a bowl coupling 3, said coupling comprising a reservoir or fluid collecting chamber 4 which is slightly tapered toward its lower end and provided

near its upper end with an annular stop bead 5. The tapered lower portion of the reservoir forms a plug which is adapted to be inserted into the inner end of the bowl.

Engaged with the upper end of the reservoir 4 is a cap 6 having on its upper end a flaring socket 7, said cap and socket forming the upper member of the coupling 3. When the upper end of the socket is engaged with the cap 6 the inner edge of the latter engages the stop bead 5 said bead thus regulating the engagement between these parts. With the flared socket 7 is adapted to be engaged the inner end of the stem 2 whereby the coupling 3 is secured to the stem. On the inner end of the stem is formed a reduced extension and in said inner end is inserted a short tube 9 the inner end of which projects a short distance beyond the extension 8, said extension and projecting end of the tube thus forming shoulders or stops which prevent any moisture which may accumulate on the inner end of the stem from being drawn up into the same.

In the reservoir 4 is formed a centrally disposed inwardly extending draft tube 10 which opens through the lower end of the reservoir and has its upper end flared outwardly to form a valve seat 11 with which, as shown in Fig. 2, is engaged a valve 12 having a tapered or conically shaped lower end and a rounded or inclined surface 13, said upper surface projecting beyond the conical shaped or tapered lower portion and forming an annular flange 14 which engages the upper edge of the valve seat and projects radially beyond the same thus effectually closing the inner end of the tube 10. To the valve 12 is connected a stem 15 which extends through the tube 10 and projects a suitable distance beyond the inner or lower end of the reservoir as shown. The projecting end of the stem 15 is threaded and on said end is screwed a stop nut 16 which when the valve is opened by the suction through the pipe stem will engage the inner end of the reservoir and thus limit the opening movement of the valve and on the inner side of the nut 16 adjacent to its outer edge are formed a series of studs 17 said studs being preferably formed by indenting the opposite side of the nut as shown. The studs 17 are formed on the inner sides of the nut to prevent the latter from coming into tight engagement with the end of the

reservoir and thus closing the tube 10. By forming the valve 12 with a tapered lower portion and providing a flared valve seat, said valve will readily seat itself by gravity

5 after each draw through the pipe.

In Figs. 3 and 4 of the drawing is shown a different form of valve the same being shown in this instance in the form of a cylindrical body or ball 18 which is adapted to engage the seat 11 and thus close the upper end of the tube 10. In the latter form of the device the valve seat 11 is extended upwardly to form a valve cage 19 having in its sides an annular series of smoke passages 20. The upper end of the cage 19 is closed by a circular cap or cover plate 21 said plate being inclined from its center toward its outer edges as shown. In the operation of the device as shown in Fig. 3 the valve will be lifted from its seat by the suction through the tube 10, thus permitting the smoke to pass through the tube and apertures 20 in the valve cage and from thence through the pipe stem.

By constructing and arranging the reservoir 4 and the valve therein as shown and described all the nicotine passing through the tube 10 from the pipe bowl will drip into the reservoir and will be thereby caught and prevented from passing into the pipe stem. The reservoir will also catch and hold any saliva dripping from the inner end of the pipe stem which fluid on leaving the tube 9 in the inner end of the pipe stem will drop into the curved or inclined upper end of the valve 12 or cap 21 and will drain therefrom into the reservoir and will be positively prevented from entering the tube by the projecting edge of the cap 21 by the flange 14 of the valve 12.

From the foregoing description taken in connection with the accompanying drawings the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advan-

tages of the invention as defined in the appended claims.

Having thus described my invention, what I claim is:

1. In a smoking pipe, a bowl, a coupling member adapted to be engaged with the inner end of said bowl, said member comprising a reservoir having formed therein near its inner end, an annular bead, a cap adapted to be engaged with the inner end of said reservoir and with said bead, a socket formed on said cap, a stem adapted to be engaged with said socket, a smoke tube arranged in said reservoir, a flared valve seat formed on the upper end of said tube, a valve adapted to be engaged with said seat whereby said tube is opened and closed, and an inclined drain surface arranged above said valve whereby the drippings from the pipe stem will be drained into the reservoir.

2. In a smoking pipe, a bowl, a coupling member adapted to be engaged with the inner end of said bowl, said member comprising a reservoir having formed therein near its inner end an annular bead, a cap adapted to be engaged with the inner end of said reservoir and with said bead, a socket formed on said cap, a stem adapted to be engaged with said socket, a smoke tube arranged in said reservoir, a flared valve seat formed on the upper end of said tube, a valve adapted to be engaged with said seat, said valve having a tapered inner end, and a rounded outer surface, said surface projecting beyond the tapered inner end of the valve to form an annular flange, a stem secured to said valve and extending through said tube, a stop nut adapted to be screwed on the threaded projecting end of the stem, and a series of studs formed on said nut to prevent the latter from closing the outer end of the tube when the valve is open.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

MARTIN RASMUSSEN.

Witnesses:

GUY A. BENSON,
A. R. JANECKY.