June 21, 1932. E. C. GUNNARSON 1,864,432

SMOKING PIPE

Filed Oct. 24, 1930

Fig. 1.

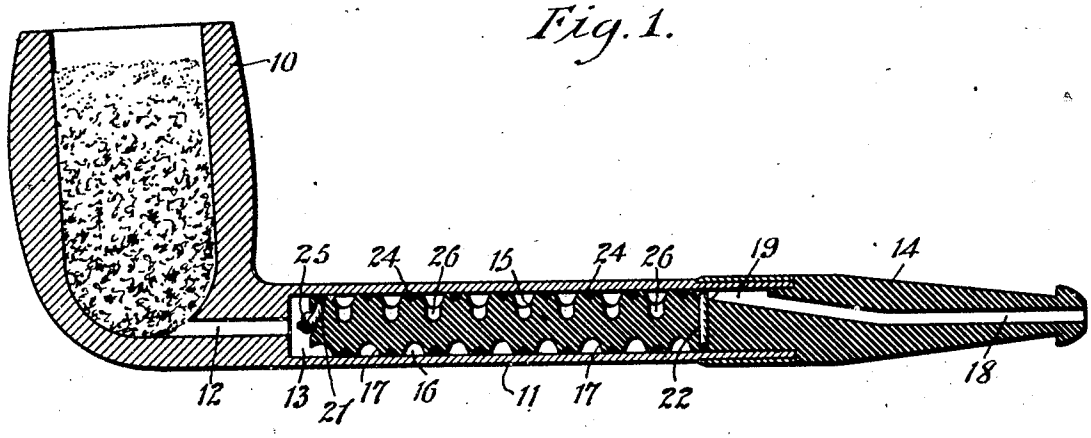
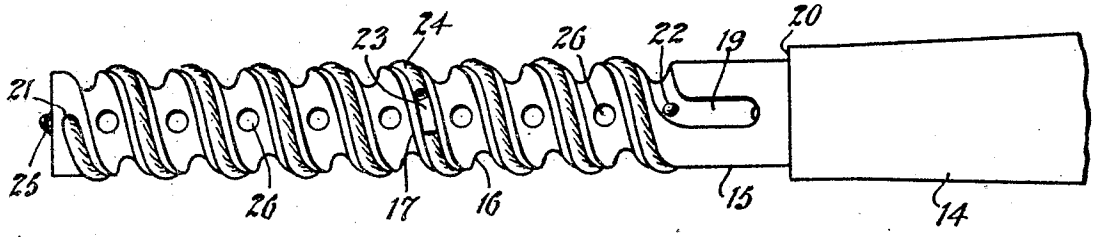


Fig. 2.



WITNESSES

Edw. Thorpe.

Chris Feinle.

INVENTOR

Enoch C. Gunnarson

BY Munn & Co.

ATTORNEY

Patented June 21, 1932 1,864,432

UNITED STATES PATENT OFFICE

ENOCH C. GUNNARSON, OF BROOKLYN, NEW YORK

SMOKING PIPE

Application filed October 24, 1930. Serial No. 490,983.

This invention relates to a pipe for smoking tobacco, and has especial reference to the type of smoking pipe wherein the smoke passage within its stem is considerably longer than the stem in order to collect the nicotine and nicotine laden moisture and other impurities as the smoke passes from the bowl through the stem into the smoker's mouth.

An object of the invention is the provision in a smoking pipe of a spiral smoke passage within the stem and packing means, whereby the sections of the stem which form or define said passage, when assembled will be interfitted in an airtight manner, thereby preventing seepage of liquid or moisture to the exterior of the stem, also preventing escape of smoke except through the mouthpiece of the pipe, and also compelling the smoke to pass entirely along the passage intended for the smoke.

Another object of the invention is the provision of packing of the indicated character in a smoking pipe which may be readily renewed or replaced whenever the occasion arises.

Another object of the invention is the provision of stem sections having a spiral smoke groove having provision for collecting nicotine and other impurities.

The nature of the invention and its distinguishing features and advantages will appear when the following specification is read in connection with the accompanying drawing, in which

Figure 1 is a central longitudinal section of a pipe embodying the features of the invention;

Figure 2 is a top view of the mouthpiece or bit and extension formed thereon.

Referring now more particularly to the drawing, it will be apparent that the pipe includes a bowl 10 for the tobacco and a stem 11 connected with the bowl. The stem 11 has a smoke passage 12 which communicates with the interior of the bowl at the bottom thereof and which also communicates with a bore 13 in the stem 11. The bore 13 is of uniform diameter throughout its length. The pipe also includes a mouthpiece or bit 14 having an extension 15. The extension in the present instance forms an integral part of the mouthpiece or bit 14. In accordance with the invention, the extension 15 is provided with a spiral or helical groove 16 and a corresponding spiral or helical ridge or flange 17. The groove 16 extends continuously from one end of the extension 15 to the other end at which it forms a continuation of a smoke and draft passage 18 in the mouthpiece or bit 14, as at 19. The extension 15 is smaller in cross sectional size than the mouthpiece or bit 14 to present a shoulder 20. The extension is provided with holes 21 and 22, respectively, at the opposite ends thereof. The ridge or flange 17 is provided with a continuous groove 23 which leads to the holes 21 and 22. Use is made of suitable packing 24 in the form of a cord or twine which is wound spirally or helically around the extension 15 disposed in the groove 23. This is accomplished by inserting one end of the packing in the hole 21 and then tying a knot to prevent the packing from pulling through at this end of the extension 15; the knot being designated 25. The packing is then wound around the extension 15 disposed in the groove 23 and the remaining end is inserted in the hole 22 after which the packing is cut off so as to terminate at one end of the hole 22 with a portion of the packing extending transversely of the extension 15, as shown in Figure 1. When the mouthpiece or bit 14 is assembled with the stem 11, the extension 15 will be disposed within the bore 13 with the packing in contact with the wall of the bore 13, thereby forming an airtight fit between the extension 15 and stem 11. The shoulder 20 limits the extent of insertion of the extension 15 in the bore 13 so that the inner end of the extension 15 will be spaced from the adjacent end of the smoke passage 12. It will be apparent that when the extension 15 is inserted in the bore 13 of the stem 11 a spiral or helical smoke passage will be formed or defined within the stem 11, and that this smoke passage communicates at one end with the smoke passage 12 and communicates at its opposite end with the smoke passage 18.

From the foregoing it will be apparent

that the provision of the packing 24 makes it possible to obtain an airtight fit between the sections of the stem; that liquid or moisture will be prevented from seeping to the interior of the stem 11 along the wall of the bore 13; and that the smoke will be compelled to pass entirely along the spiral or helical passage formed within the stem 11. Attention is also called to the fact that the packing 24 may be readily renewed or replaced whenever the occasion arises to maintain the pipe in a sanitary condition.

In accordance with another feature of the invention there is provided means within the spiral or helical smoke passage for collecting or trapping nicotine and other impurities as the smoke passes from the bowl through the same into the smoker's mouth. The said means consists of cavities or wells 26 in the extension 15 within the groove 16. These cavities or wells 26 retain the impurities out of the line of the smoke and also contribute to keep the spiral smoke passage clean and also from becoming clogged.

What is claimed is:

1. In a smoking pipe, stem sections, one of said sections having a spiral groove and a corresponding ridge and extending into the other section to define a spiral smoke passage, said ridge having a continuous groove therein, and a piece of packing material laid in the groove in the ridge and contacting with the surrounding stem section to form an air tight fit between said sections.

2. In an article for smoking a tobacco product, a mouthpiece having an extension, said extension having a spiral smoke groove therein which forms a continuation of the smoke passage in the mouthpiece, and said extension having cavities therein within the groove which serve as depositories for foreign matter.

ENOCH C. GUNNARSON.