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M. KORNBLATT
SMOKE BAFFLING DEVICE

2,105,151

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Fig. 1

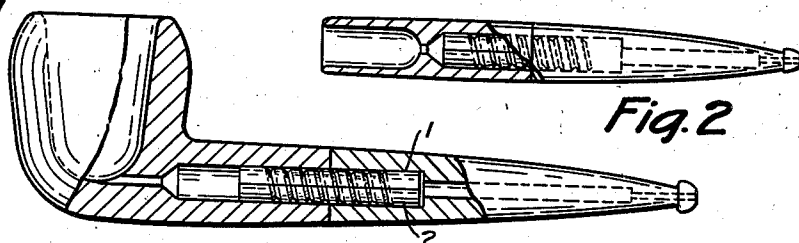


Fig. 2

Fig. 3

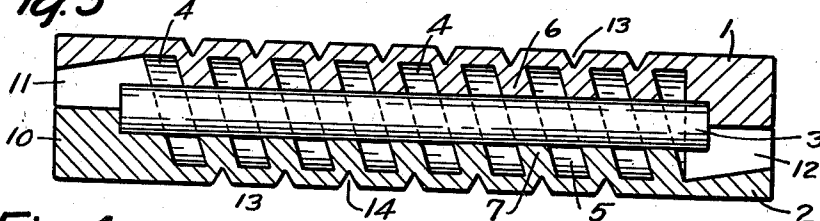


Fig. 4

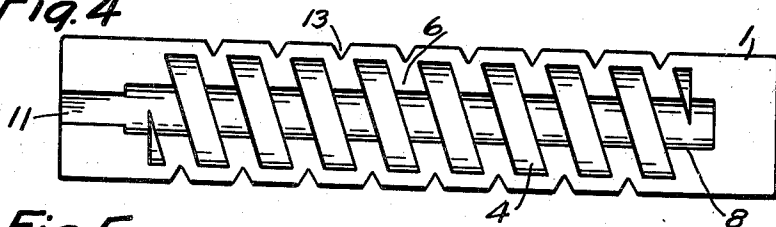


Fig. 5

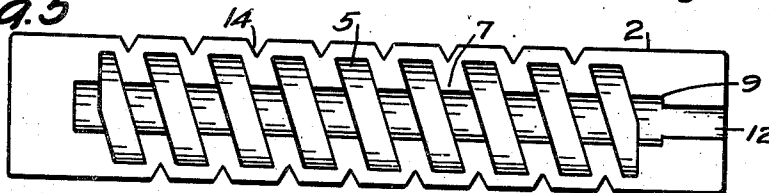


Fig. 6

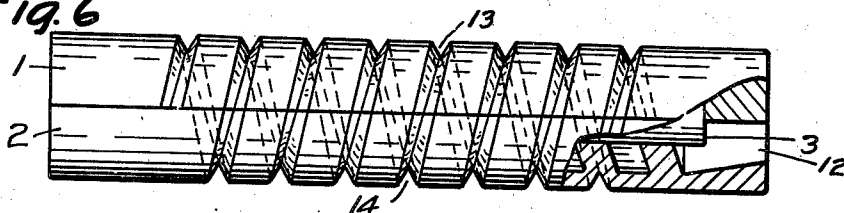


Fig. 7

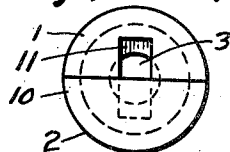


Fig. 8

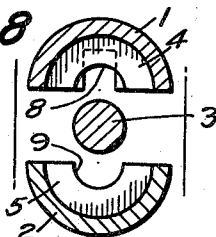
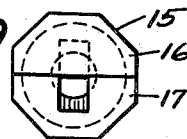


Fig. 9



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SMOKE BAFFLING DEVICE

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4 Claims. (Cl. 131—12)

The purpose of this invention is to provide an improved baffling device that may be inserted in a pipe stem, cigarette or cigar holder, or the like, which cools the smoke materially before it is drawn into the mouth, which also condenses and traps the nicotine contained in the smoke, and which may be readily cleaned.

The invention is a baffling device having a continuous spiral passage therethrough which is formed in three separable parts, and which may readily be inserted in a pipe stem or in a cigar or cigarette holder or in any device through which smoke or the like may be drawn.

Many types of baffling devices have been provided for pipes and the like, but these either reach a saturation point or are difficult to clean or are too expensive or elaborate for normal use and, therefore, it has been found desirable to provide a simple and efficient baffling device made of a minimum number of parts, in which the parts may readily be separated for cleaning.

The object of the invention is, therefore, to provide a baffling device that may be inserted in the stem of a pipe or the like, which may be made of metal or other material that will not absorb nicotine and moisture, and from which the nicotine may readily be cleaned.

Another object is to provide an arresting device adapted to be inserted in the stem of a pipe or the like, which is made of several parts, and in which the parts may readily be opened for cleaning and also readily assembled.

Another object is to provide a cooling device for the smoke from a pipe or the like, which may be inserted in the stem, and which will also arrest nicotine.

Another object is to provide a baffling device for pipe stems and the like, which may readily be inserted in an opening in the stem, and which is adapted to hold the two sections of the stem together.

A further object is to provide a baffling device adapted to be held in pipe stems and the like, having a spiral passage therethrough, in which the entrance end of the passage is elevated, preventing moisture passing therein.

And a still further object is to provide a baffling device for pipes, cigar and cigarette holders, and similar devices, which cools the smoke, and arrests the nicotine, which is of a simple and economical construction.

With these ends in view the invention embodies a device formed in two semi-circular sections, having a cylindrical core, a spiral passage extending around the core, and opening at the

opposite ends, and also spiral grooves in the outer surface.

Other features and advantages of the invention will appear from the following description, taken in connection with the drawing, wherein:

Figure 1 is a view showing a pipe with the device inserted therein with part of the pipe broken away, showing the baffling device.

Figure 2 is a cigar or cigarette holder with part broken away, showing the device incorporated therein.

Figure 3 is a longitudinal section through the device with the core shown in full lines.

Figure 4 is a view looking upward toward the under side of the upper half of the device.

Figure 5 is a similar view looking downward upon the lower half of the device.

Figure 6 is a side elevation on an enlarged scale showing an alternate design in which the grooves at the outer surface are illustrated opposite hand to those shown in Figures 1 and 2, and also having part broken away, showing the interior thereof.

Figure 7 is a view looking toward the end of the device that is positioned toward the bowl of the pipe.

Figure 8 is a cross section through the device with the three parts separated.

Figure 9 is a view similar to that shown in Figure 7 looking toward the opposite end of the device, showing an alternate design, in which the outer surface is formed with flat sides.

In the drawing the device is shown as it may be made, wherein numeral 1 indicates the upper half, numeral 2 the lower half, and numeral 3 the core.

Each of the halves 1 and 2 are in the form of a half-cylinder, as shown in Figure 8, and each is provided with the complementary parts of a spiral groove with the part in the upper half indicated by the numeral 4, and that in the lower half by the numeral 5. The webs 6 and 7 between the grooves are formed with semi-circular openings 8 and 9, as shown in Figure 8, and these are curved to correspond with the outer surface of the core 3, which is in the form of a round rod extending through the device, as shown in Figure 3.

The pipe end of the device, which is indicated by the numeral 10, is provided with an opening 11 extending upward in the upper part 1, and this communicates with the groove 4 as shown in Figure 3, and the lower half is also provided with an opening 12 similar to the opening 11, and positioned at the opposite end of the device, and

this opening communicates with the opposite end of the groove 4, thereby providing a complete passage through the device passing in through the opening 11, through the spiral groove, and out of the opening 12. The outer surface of the device is provided with a spiral thread indicated by the numeral 13 in the upper part, and 14 in the lower part. This groove may be of any pitch, size, or design and may be relatively small, or large, as may be desired.

It will also be understood that the groove 4 may be rectangular as shown, or of any shape or design. The outer surface of the device may also be round as shown in Figures 1 to 8, or may be formed with a plurality of flat sides 15 as shown in Figure 9, in which the upper half of the device is indicated by the numeral 16, and the lower half by the numeral 17.

It will be understood that other changes may be made without departing from the spirit of the invention. One of these changes may be in the relative size of the device, as it may be made relatively small in diameter as compared with the length, or relatively short, and it will also be understood that it may or may not be used as a means for joining the stem to the pipe, or for holding the two parts together. Another change may be in the use of other means in the outer surface for holding the device in the pipe stem or holder, and still another may be in the use of other means for locking and holding the two parts together.

The construction will be readily understood from the foregoing description. In use the device may be made and supplied with the pipe, or provided as a separate unit, and the pipe and stem may be provided with openings corresponding with the outside diameter of the baffling device so that, with the parts of the baffle assembled they may be pressed into the pipe, and then the stem may be pressed over the opposite end, as shown in Figure 1, so that the device provides means for securing the pipe and stem together. It will be noted that the end with the upper opening is inserted in the pipe portion of the device, thereby preventing saliva flowing through the device into the pipe bowl and also facilitating arresting nicotine from the bowl of the pipe.

It will also be noted that as it is necessary for all smoke to pass through the spiral passage, it will have a tendency to cool before it reaches the mouth, and in passing through this continuous passage the nicotine will be deposited in the parts thereof, so that smoke entering the mouth will be substantially cool, and also substantially free of nicotine. Making the device in three separate parts makes it possible to take it apart and easily clean each part. The threads in the outer surface provide gripping means by which it may readily be held and it will be understood that the outer surface may be roughened by any means.

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

1. A baffling device comprising a relatively small cylindrical unit split longitudinally on a

horizontal plane, and internally threaded and adapted to be inserted in the stem of a smoker's article with the threads forming a spiral passage passing therethrough, through which all smoke formed in the article must pass, and a filler comprising a solid cylindrical member engaging the threads of said unit, and blocking out the center thereof.

2. A tobacco smoke filter comprising a hollow cylinder formed of a plurality of sectors with a spiral groove on its inner surface, each sector having a central opening forming a continuous core throughout the length of the spiral thereof and a cylindrical rod inserted in the hollow cylinder contacting the surfaces of the threads of said spiral, said device forming a cylinder with an inlet and outlet opening, and with a spiral groove extending from one end to the other communicating with said inlet and outlet openings, adapted to be inserted in the bore of a pipe stem, cigar or cigarette holder or the like, and adapted to be readily removed and separated for cleaning.

3. A baffling device for the stems of smoker's articles, of the type having a confined spiral groove, and adapted to be inserted in the relatively small opening of a stem, characterized in that it comprises an upper semi-circular section, a lower semi-circular section, and a cylindrical rod interposed between the two sections, and in which each section has an internal threaded portion extending through the intermediate part thereof, and with the ends of said threaded portion stopping short of the ends of said part, each of said parts having a central semi-circular opening extending through the threaded portions thereof, in which said cylindrical rod is mounted, forming filling means for the center thereof, blocking out said center and providing confined internal spiral grooves, the ends of both of said sections being substantially closed with oppositely positioned openings, in which the opening extending toward the tobacco is above the center of said device, and the opening extending toward the mouthpiece is below the center of said device.

4. A baffling device for the stems of smoker's articles, of the type having a confined spiral groove, and adapted to be inserted in the relatively small opening of a stem, characterized in that it comprises an upper semi-circular section, a lower semi-circular section, and a cylindrical rod interposed between the two sections, and in which each section has an internal threaded portion extending through the intermediate part thereof, and with the ends of said threaded portion stopping short of the ends of said part, each of said parts having a central semi-circular opening extending through the threaded portions thereof, in which said cylindrical rod is mounted, forming filling means for the center thereof, blocking out said center and providing confined internal spiral grooves, the ends of both of said sections being substantially closed with oppositely positioned openings, and in which the said filtering device forms attaching means between the tobacco receiving end of the article and the mouthpiece thereof.

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