(No Model.)

W. M. ECCLES.

TOBACCO PIPE.

No. 375,140. Patented Dec. 20, 1887.

Fig I

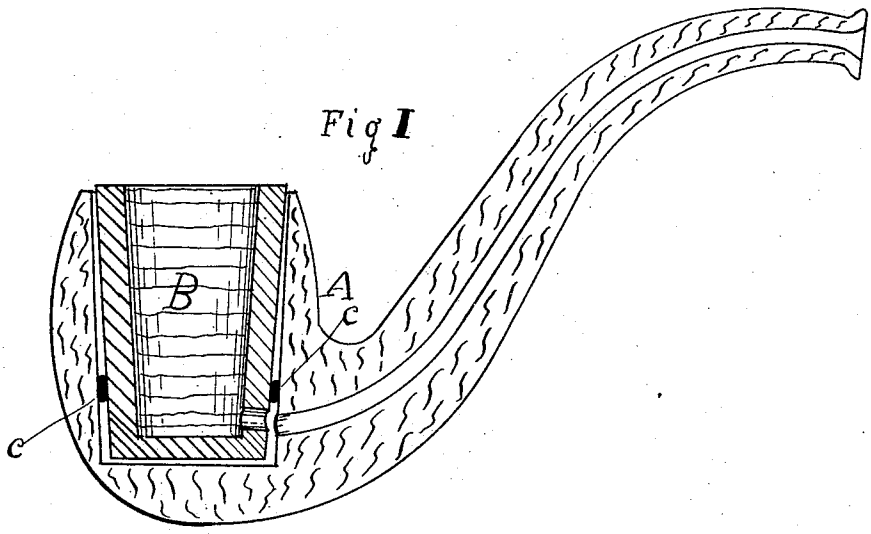
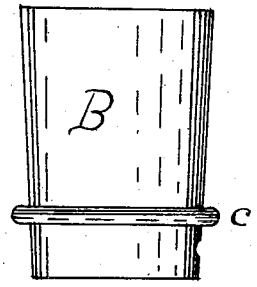


Fig II.



Attest
DeKalb Collins
J. Amodeus

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Inventor

N. PETERS, Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

WILLIAM M. ECCLES, OF ST. LOUIS, MISSOURI, ASSIGNOR OF ONE-HALF TO APPLETON S. BRIDGESS, OF SAME PLACE.

TOBACCO-PIPE.

SPECIFICATION forming part of Letters Patent No. 375,140, dated December 20, 1887.

Application filed August 29, 1887. Serial No. 248,216. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM M. ECCLES, a citizen of the United States, residing in the city of St. Louis, in the State of Missouri, have invented a new and useful Improvement in Tobacco-Pipes, of which the following is a specification.

My invention consists of a tobacco-pipe having a bowl, stem, and removable receptacle made of corn-cob or some absorbent material and an elastic ring surrounding said receptacle, the bowl of the pipe having its inner wall differently tapered from the outer wall of the receptacle, so as to allow the elastic ring to be started at or near the bottom of the receptacle and moved toward the top as the receptacle is pressed into the bowl, and as the receptacle shrinks from use it may be started nearer the top of the receptacle, the ring thus always operating to keep the aperture between the bowl and the receptacle perfectly closed and air-tight.

The object of my invention is to provide a pipe having a corn-cob lining with an elastic band around the corn-cob, so that when the corn-cob is inserted in the bowl the band will effectually fill up the space between the inside of the bowl and the outside of the corn-cob, and thus prevent the suction of the air between the corn-cob and the bowl of the pipe, and also take up any shrinkage that occurs in the use of corn-cob.

The accompanying drawings fully illustrate my invention, in which Figure I is a vertical section of my pipe with the corn-cob lining and elastic band. Fig. II shows, by a detached view, the corn-cob lining and elastic band.

A in the drawings is a bowl and stem of a pipe, which can be made of any material, whether combustible or non-combustible, as the bowl is protected from fire by the lining B. This enables the bowl and stem to be made of wood or of any other combustible material and of material which will not absorb nicotine.

The lining B is a corn-cob bored out in the center and turned off on the outside and made to fit loosely in the bowl A. It is supplied with an elastic band, C, which is placed around it above the air-hole in the corn-cob, and it serves to fill up the space between the corn-cob and the inside of the bowl, and thus prevent the suction of air between the corn-cob and inside of the bowl. The band, being elastic also, will expand as the corn-cob contracts or shrinks by the action of the heat upon it.

I know that there have been pipes made with corn-cob linings, but they would not operate, because as soon as the cob would begin to dry out it would permit the suction of air between the cob and the inside of the bowl, and it would then fail to draw. The introduction of the elastic band C effectually overcomes this difficulty, for it expands as the corn-cob contracts.

By this construction a pipe can be made of the costliest or softest material and be provided with an absorbent lining, which is cheap and which can be used awhile until saturated with nicotine, and then taken out and thrown away and another substituted, and the smoker will always have a perfectly sweet pipe, free from the effects of the poisonous nicotine. A pipe thus constructed is cheap, can be easily and cheaply cleansed and have the lining replaced with a new and fresh lining at any time, and the bowl or outside of the pipe can be made of cheap or costly material, as is desired, and highly ornamented without danger of damage from heat or coloring from nicotine.

The corn-cob is cut on a bevel, so that the outside of the corn-cob gradually tapers from the top to the bottom, and the inside of the bowl is made to gradually taper from the top to the bottom on the inside, so that the taper of the inside of the bowl will be always considerably less than the taper of the outside of the corn-cob, which construction makes the space between the outside of the corn-cob and the inside of the bowl narrower at the top than it is at the bottom. This corn-cob will shrink as it is used, and, being tapered toward the bottom, the elastic band may be started at the lower end of the corn-cob and inserted into the inside of the bowl, and the elastic band, being round, will roll up the corn-cob as it is shoved down into the bowl of the pipe, and as the inside of the bowl is on a less taper than the outside of the corn-cob lining the further up it rolls on the corn-cob the tighter

it makes the corn-cob in the bowl. The object of cutting the inside of the bowl on a less taper than the outside of the corn-cob is to attain this very end—that is, to make the corn-cob tighter in the bowl the more it is shoved down into the bowl, and also to enable the band to be rolled up the corn-cob as the cob shrinks with heat while in use, while the corn-cob is always inserted level with the top of the bowl. By this movable elastic band and the taper of the corn-cob and a less taper of the inside of the bowl the space between the inside of the bowl and the outside of the corn-cob is always kept perfectly closed and air-tight at any stage of the shrinkage of the cob, and enables the user of the pipe to easily insert or detach the corn-cob.

I know that a detachable meerschaum center or cup has been used in the bowl of a pipe and that the inside of the bowl of the pipe has been provided with cork to prevent the air from passing down between the bowl and the inside meerschaum lining; but this cork is set in the inside of the bowl and is not movable, as mine is, and will not take up the shrinkage of the corn-cob, because it cannot be moved up the corn-cob, as my elastic band can, but when the corn-cob shrinks away by use it will allow the air to pass down between the corn-cob and the inside of the bowl.

What I claim, and desire to secure by Letters Patent, is—

The tobacco-pipe described, consisting of the bowl, stem, removable receptacle, and elastic ring surrounding said receptacle, the inner wall of the bowl and the outer wall of the receptacle being differently tapered, as and for the purpose set forth.

In witness whereof I have hereunto set my hand.

WILLIAM M. ECCLES.

Attest:
J. W. COLLINS,
J. A. MODICA.