

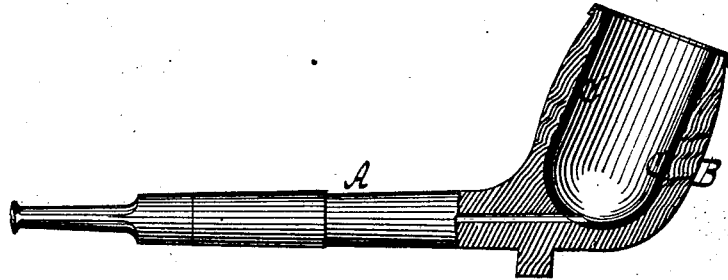
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W. DEMUTH.
Tobacco-Pipe.

No. 200,030.

Patented Feb. 5, 1878.

*flint
cellulose
shell pipe*



Witnesses.

*Otto Hufilana
Chas. Wahlers.*

Inventor.

*William Demuth
by
Van Santvoord & Hauff
his attorneys.*

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200,030

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UNITED STATES PATENT OFFICE.

WILLIAM DEMUTH, OF NEW YORK, N. Y.

IMPROVEMENT IN TOBACCO-PIPES.

Specification forming part of Letters Patent No. **200,030**, dated February 5, 1878; application filed January 7, 1878.

131-220

To all whom it may concern:

Be it known that I, WILLIAM DEMUTH, of the city, county, and State of New York, have invented a new and useful Improvement in Pipes and Cigar-Holders, which improvement is fully set forth in the following specification, reference being had to the accompanying drawing, which represents a pipe, partly in section, embodying my invention.

This invention relates to improvements in smoking-pipes; and consists in a pipe, as a new article of manufacture, having a fire-proof lining in its bowl, composed of flint, feldspar, and soluble glass, which are incorporated together and applied to the interior of the bowl in a liquid state, and then permitted to set, whereby the durability of the bowl is greatly increased, without increasing the cost of the article to any extent.

In the drawing, the letter A designates a pipe, the bowl B of which is provided with a fire-proof lining, (marked C.) This fire-proof lining I form of the following ingredients, viz: Flint, one part; feldspar, two parts, and a sufficient quantity of soluble glass to form a paste when the flint and feldspar are mixed together therewith. This composition is fire-proof, and at the same time adheres to the surface of the article lined therewith.

In applying my lining to the bowl B, or to the bowl of a cigar-holder, I simply pour the

composition, in semi-liquid form, into the bowl, and after the entire surface is covered thereby I pour the residue out again. The lining thus formed is then allowed to set or harden, and after this has taken place the article is ready for use.

My lining is particularly applicable to cheap wooden pipes, and by its use the durability of the article is obviously increased, while, by reason of the extreme facility of its application, the least possible expense is incurred in effecting the desired object.

It is obvious that the application of the herein-described lining enables me to utilize wood or other material, which, on account of its liability to ignite or be affected by heat, could not be used heretofore in the manufacture of pipes and cigar-holders.

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

A tobacco-smoking pipe having its bowl provided with an interior fire-proof lining composed of flint, feldspar, and soluble glass, substantially as described.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 2d day of January, 1878.

WM. DEMUTH. [L. S.]

Witnesses:

E. F. KASTENHUBER,
ROBT. E. MILLER.