

# UNITED STATES PATENT OFFICE.

HENRY C. FRITZ, OF CHESTER, PENNSYLVANIA.

## IMPROVEMENT IN PIPE-STEMS.

Specification forming part of Letters Patent No. **165,814**, dated July 20, 1875; application filed July 1, 1875.

*To all whom it may concern:*

Be it known that I, H. C. FRITZ, of Chester, in the county of Delaware and State of Pennsylvania, have invented certain new and useful Improvements in Pipe-Stems; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification.

My invention relates to stems for pipes; and it consists in a double stem, or one stem within another, the exterior stem being slotted to allow free circulation of air around the interior stem, for the purpose of cooling the smoke passing through said interior stem, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a longitudinal section, and Fig. 2 a cross-section through line *x x*.

A represents the bowl of a pipe, connected with the mouth-piece B by a double pipe-stem, consisting of an exterior stem, C, and an interior stem, D. The exterior stem C may be made of any kind of wood or other material suitable for pipe-stems, and is similar in appearance to those generally in use, except that it is slotted longitudinally nearly from one end to the other. The interior stem D may be made of thin tin, German silver, or any other kind of metal or material that will cool off sudden-

ly. It may be made flat, as shown in the drawing, or round, or any other desired shape, and inserted in the exterior stem C.

The relative size of the two stems, and of the slot in the exterior stem, is such that there will be left sufficient space between the two stems for the air to circulate freely around the inner stem through the slot in the outer stem. By this means the inner stem D is kept cool, thereby cooling the smoke as it passes through the same.

The great objection to short pipes especially is the great heat of the smoke as it enters the mouth. This is entirely obviated by my invention, and the smoke is cool and pleasant when it enters the mouth.

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

1. A double pipe-stem consisting of an exterior and interior stem, the former having a lateral air-passage, substantially for the purposes set forth.

2. The combination, with a pipe-bowl, A, and mouth-piece B, of the exterior stem C, slotted longitudinally, as described, and the interior stem D placed therein, substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

HENRY C. FRITZ.

Witnesses:

T. H. ALEXANDER,  
W. C. MCARTHUR.

W. H. L. GABBS.

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No. 165,815.

Patented July 20, 1875.

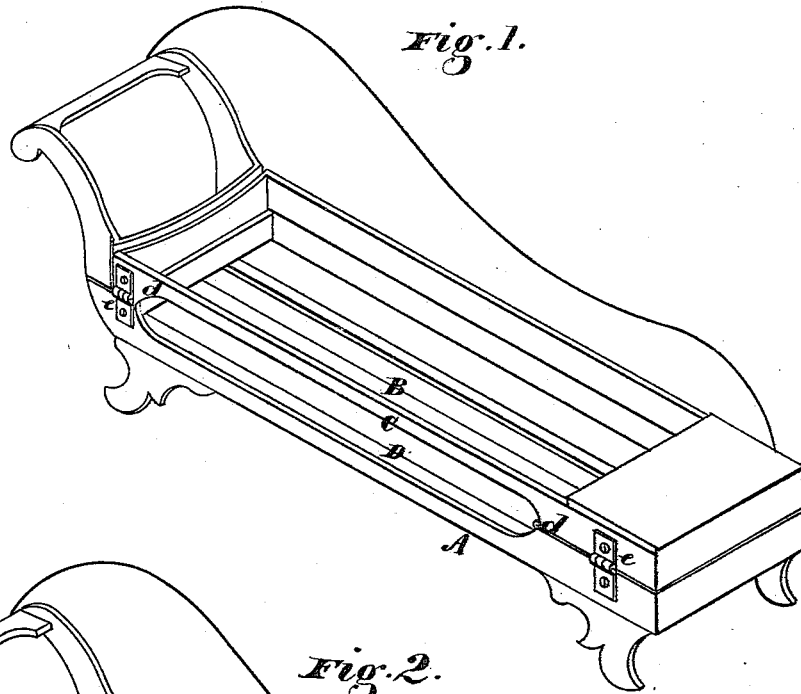


Fig. 1.

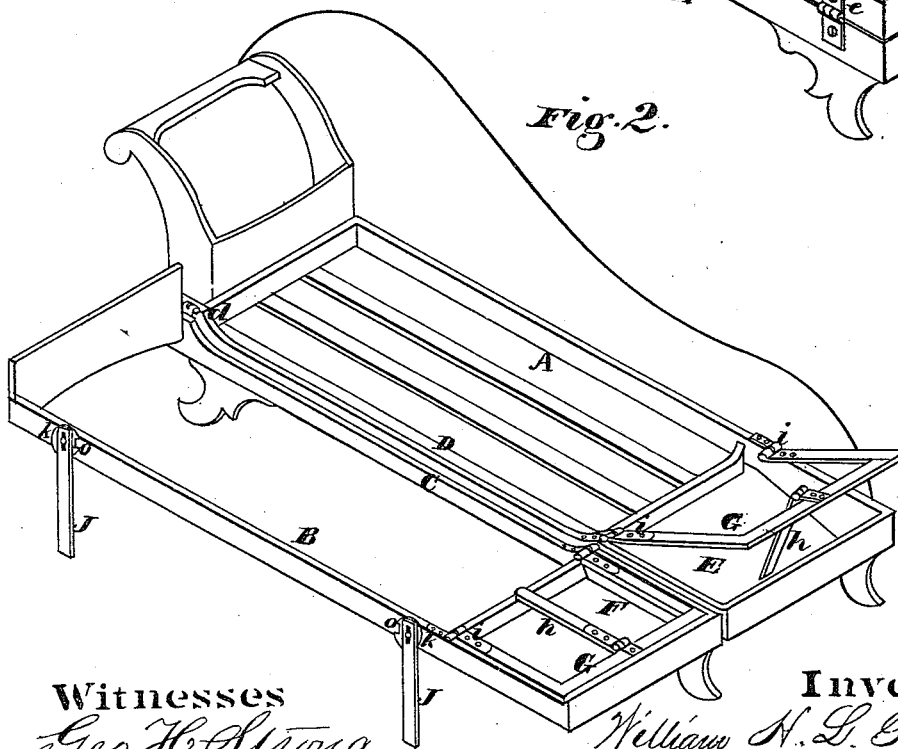


Fig. 2.

Witnesses  
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Attys