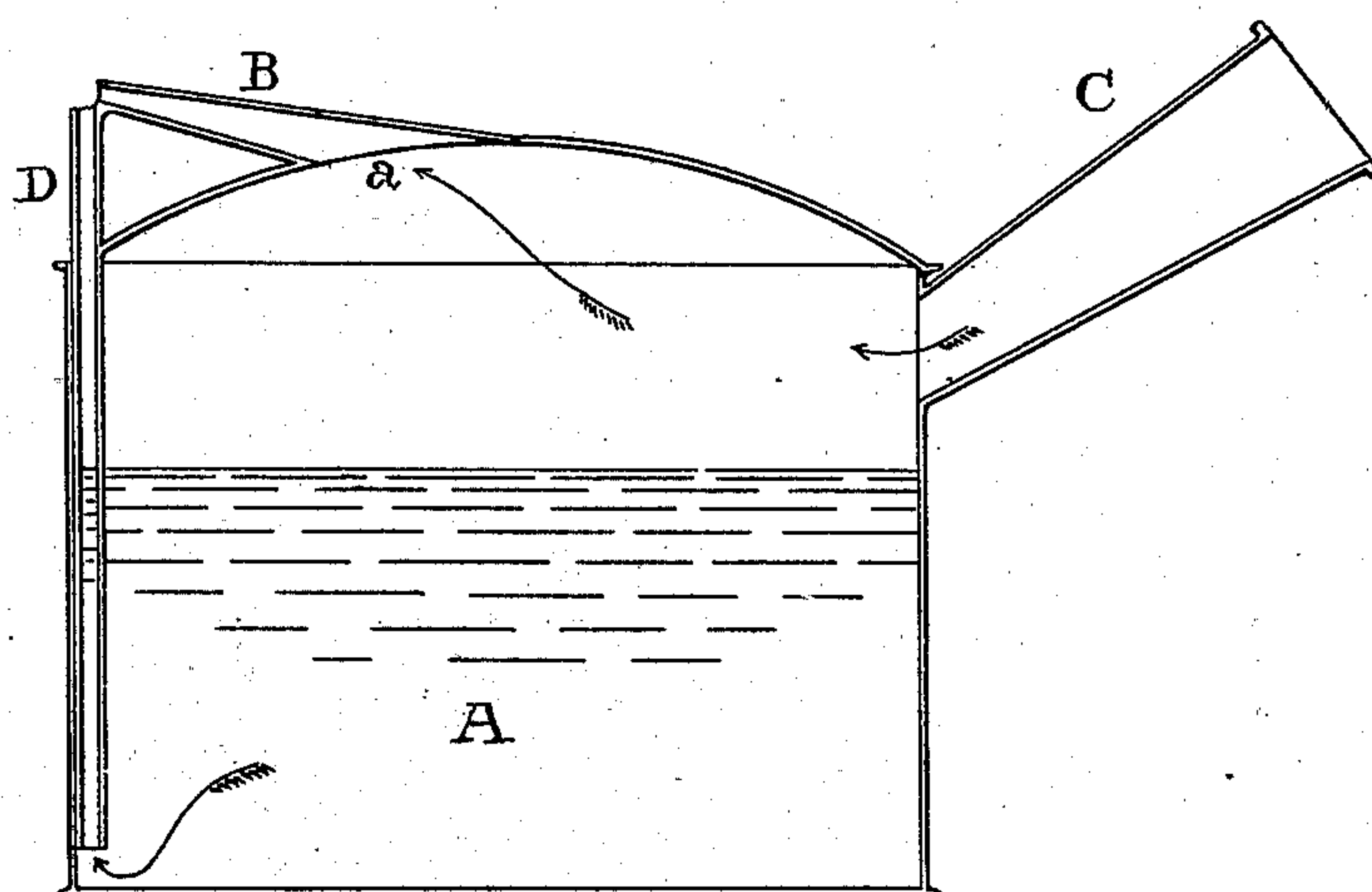


H. HUMPHREVILLE.  
Spray-Dampeners.

No. 225,056.

Patented Mar. 2, 1880.



·WITNESSES·

*W. B. Niley*  
*Jacob Stauffer*  
— " —

·INVENTOR·

*Henry Humphreville*

# UNITED STATES PATENT OFFICE.

HENRY HUMPHREVILLE, OF MOUNTVILLE, ASSIGNOR OF ONE-HALF OF HIS  
RIGHT TO ROBERT M. SLAYMAKER, OF LANCASTER, PA.

## SPRAY-DAMPENER.

SPECIFICATION forming part of Letters Patent No. 225,056, dated March 2, 1880.

Application filed January 5, 1880.

*To all whom it may concern:*

Be it known that I, HENRY HUMPHREVILLE, of Mountville, in the county of Lancaster and State of Pennsylvania, have invented certain  
5 Improvements in Spray-Dampeners, of which the following is a specification.

This improvement relates to a class of atomizers or spray-dampeners, and has for its object to utilize atmospheric pressure with the  
10 force of the lungs by the arrangement herein set forth.

The accompanying drawing illustrates the vessel and pipes, showing a vertical section with letters of reference marked thereon.

15 The vessel A, of the desired size, made out of tin plate, has a convex top or affixed cover. This cover has a central opening at *a*, over which the oblique pipe B is soldered, so as to communicate with the interior of the vessel  
20 A. This pipe is tapering to a reduced opening directly in front and on a level with the opening of a vertical pipe, D, of a small diameter, extending down on the inner side of said vessel to near the bottom thereof.

25 A tubular handle or pipe, C, opens into the top of the vessel directly under the cover of the same and opposite the vertical pipe D. This handle or pipe C is used for introducing water into the vessel when it is ready for  
30 use, as also for a mouth-piece or blow-pipe to blow into to produce the spray for dampening tobacco or the like.

I am aware that R. R. Foot uses a vertical pipe and a horizontal blowing-pipe on a vessel  
35 with the same object in view, patented June 29,

1869, No. 92,029, in which he claims the combination of his external pipe, provided with wings, with a vertical pipe from the interior of the vessel. I therefore do not claim a vertical pipe and horizontal pipe separately con-  
40 sidered.

I am aware that various devices are in use for atomizers, and to force a spray partially by direct pressure upon the surface of the liquids, and partially by passing over the outer  
45 end of a pipe leading into said liquid, as seen in Patent No. 143,070, September 23, 1873, in which a flexible bulb on the top of the vessel forces the air down upon the liquid. Such an arrangement and combination I do not claim  
50 or use.

What I deem to be new and useful is the combination of my handled blow-pipe and its combined action of pressure and upper escape of the air to meet the jet and spray the water,  
55 as a whole constituting a new article to the trade. Therefore,

What I claim as my improvement in spray-dampeners, as constituting a new article of manufacture, is—  
60

The arrangement, in a vessel, A, of the combined tubular-handle blow-pipe and funnel C, the oblique tapering pipe B, communicating with the interior of the vessel, and the vertical suction or spray pipe D, the whole as  
65 and for the purpose specified.

HENRY HUMPHREVILLE.

Witnesses:

W. B. WILEY,  
JACOB STAUFFER.