

# UNITED STATES PATENT OFFICE.

WILLIAM ADAMSON, OF PHILADELPHIA, PENNSYLVANIA.

## IMPROVED PROCESS FOR DISINFECTING NOXIOUS VAPORS.

Specification forming part of Letters Patent No. **46,317**, dated February 14, 1865.

*To all whom it may concern:*

Be it known that I, WILLIAM ADAMSON, of Philadelphia, Pennsylvania, have invented an Improvement in Disinfecting Noxious Vapors; and I do hereby declare the following to be a full, clear, and exact description of the same.

My invention consists in the use, for disinfecting and deodorizing the fumes arising from burning, boiling, or fermenting animal matter, of the products of combustion of spent tan-bark, old leather, or other material containing tannin, as described hereinafter.

In order to enable others to practice my invention, I will now proceed to describe the manner of carrying it into effect.

In establishments where the rendering of tallow, the boiling of soap, bones, or glue, &c., is conducted, the noxious vapors arising infect the atmosphere to such an extent that such establishments are a nuisance and a detriment to the public health and comfort, especially in the neighborhood of large cities. I have found by practical tests that these noxious fumes may be effectually deodorized and the nuisance obviated by employing, in connection with the fuel used in the fire-places of such establishments, spent tan, old leather, or any material containing tannin. If the fumes from a tallow-chandler's kettle, for instance, be directed to the chimney through which the products of

combustion from any adjacent fire-place pass, and spent tan-bark, old leather, or any material containing tannin be thrown from time to time onto the burning fuel, and the products of combustion be so directed toward the fumes from the boiler as to be mixed therewith, the fumes will be so thoroughly deodorized as to become entirely inoffensive. The same effect will be produced in rooms from which the noxious vapors cannot be well excluded by simply burning spent tan in the room. I prefer, however, in all cases, when it can be conveniently done, to direct the fumes to a flue or chimney through which the products of combustion must pass.

I claim as my invention and desire to secure by Letters Patent—

The use, for disinfecting or deodorizing the fumes arising from burning, boiling, or fermenting animal matter, of the products of combustion of spent tan-bark, old leather, or other material containing tannin, as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WM. ADAMSON.

Witnesses:

HENRY HOWSON,  
JOHN WHITE.