

Specification of John Dales : applying deodorizing fluids to sewers, &c.;

Contributors

Dales, John.

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A.D. 1859, 9th NOVEMBER. N° 2551.

SPECIFICATION

OF

JOHN DALES.

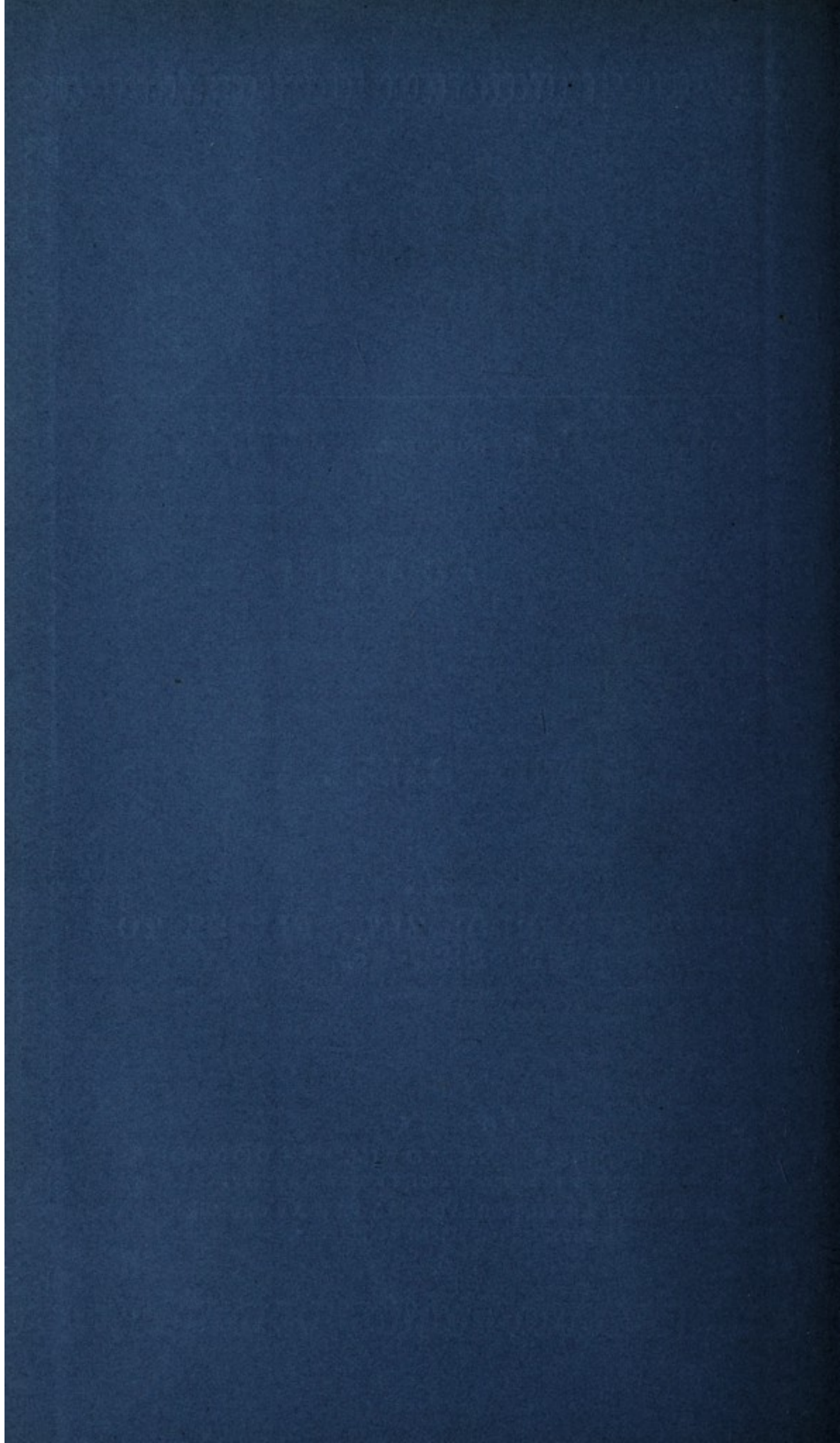
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APPLYING DEODORIZING FLUIDS TO
SEWERS, &c.
—

LONDON:

PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,
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1860.





A.D. 1859, 9th NOVEMBER. N° 2551.

Applying Deodorizing Fluids to Sewers, &c.

LETTERS PATENT to John Dales, of 11 and 12, Gresham House, Old Broad Street, in the City of London, for the Invention of "**IMPROVEMENTS IN APPLYING DEODORIZING FLUIDS TO SEWERS AND OTHER RECEPTACLES OF SEWAGE.**"

Sealed the 24th April 1860, and dated the 9th November 1859.

PROVISIONAL SPECIFICATION left by the said John Dales at the Office of the Commissioners of Patents, with his Petition, on the 9th November 1859.

I, JOHN DALES, of 11 and 12, Gresham House, Old Broad Street, in the
5 City of London, do hereby declare the nature of the Invention for "**IMPROVEMENTS IN APPLYING DEODORIZING FLUIDS TO SEWERS AND OTHER RECEPTACLES OF SEWAGE,**" to be as follows:—

This Invention has for its object improvements in applying deodorizing fluids to sewers and other receptacles of sewage. In order to apply deodorizing
10 fluids to sewers, I employ a tank capable of containing the requisite amount of deodorizing material to be supplied to the sewer at the spot at which the tank is situated during several days, and from the bottom of this tank a pipe passes into the sewer. The tank I prefer to be formed beneath the surface of the ground, and when the sewer runs along a road, that the tank should be under
15 the foot path, and at the side of the tank a shaft is formed which passes up to the surface of the ground, and is covered with a moveable door; in this shaft

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there is a glass guage communicating with the tank which indicates the amount of deodorizing fluid in the tank; the pipe from the bottom of the tank also passes through this shaft, and on the pipe there is a tap, the plug of which is connected with suitable apparatus actuated by clockwork for turning the plug more or less, at different times of the day, so that more deodorizing material may be supplied to the sewer at those parts of the day when more sewage is passing through the sewers than at others; this clockwork and apparatus is contained within the shaft. The tank may be filled with the deodorizing fluid through a pipe passing from the shaft into the upper part of the tank. Deodorizing fluids may be supplied in a similar manner to other receptacles of sewage.

SPECIFICATION in pursuance of the conditions of the Letters Patent, filed by the said John Dales in the Great Seal Patent Office on the 9th May 1860.

TO ALL TO WHOM THESE PRESENTS SHALL COME, I, JOHN DALES, of 11 and 12, Gresham House, Old Broad Street, in the City of London, send greeting.

WHEREAS Her most Excellent Majesty Queen Victoria, by Her Letters Patent, bearing date the Ninth day of November, in the year of our Lord One thousand eight hundred and fifty-nine, in the twenty-third year of Her reign, did, for Herself, Her heirs and successors, give and grant unto me, the said John Dales, Her special licence that I, the said John Dales, my executors, administrators, and assigns, or such others as I, the said John Dales, my executors, administrators, and assigns, should at any time agree with, and no others, from time to time and at all times thereafter during the term therein expressed, should and lawfully might make, use, exercise, and vend, within the United Kingdom of Great Britain and Ireland, the Channel Islands, and Isle of Man, an Invention for "**IMPROVEMENTS IN APPLYING DEODORIZING FLUIDS TO SEWERS AND OTHER RECEPTACLES OF SEWAGE**," upon the condition (amongst others) that I, the said John Dales, my executors or administrators, by an instrument in writing under my, or their, or one of their hands and seals, should particularly describe and ascertain the nature of the said Invention, and in what manner the same was to be performed, and cause the same to be filed in the Great Seal Patent Office within six calendar months next and immediately after the date of the said Letters Patent.

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NOW KNOW YE, that I, the said John Dales, do hereby declare the nature of the said Invention, and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement thereof, that is to say:—

- 5 This Invention has for its object improvements in applying deodorizing fluids to sewers and other receptacles of sewage. In order to apply deodorizing fluids to sewers I employ a tank capable of containing the requisite amount of deodorizing material to be supplied to the sewer at the spot at which the tank is situated during several days, and from the bottom of this tank a pipe passes
10 into the sewer. The tank I prefer to be formed beneath the surface of the ground, and when the sewer runs along a road, that the tank should be under the footpath, and at the side of the tank a shaft is formed, which passes up to the surface of the ground, and is covered with a moveable door; in this shaft there is a glass guage communicating with the tank, which indicates the amount
15 of deodorizing fluid in the tank. The pipe from the bottom of the tank also passes through this shaft, and on the pipe there is a tap, the plug of which is connected with suitable apparatus actuated by clockwork for turning the plug more or less at different times of the day, so that more deodorizing material may be supplied to the sewer at those parts of the day when more sewage is
20 passing through the sewers than at others; this clockwork and apparatus is contained within the shaft. The tank may be filled with the deodorizing fluid through a pipe passing from the shaft into the upper part of the tank. Deodorizing fluids may be supplied in a similar manner to other receptacles of sewage.
- 25 Having thus stated the nature of my said Invention I will proceed more fully to describe the manner of performing the same.

DESCRIPTION OF THE DRAWING.

- Figure 1 shows a transverse section of apparatus and of a sewer to which the same is applied; Figure 2 is a horizontal section of the same. A is a
30 sewer; B, a tank or reservoir situated in any convenient position. Into this tank or reservoir the supply of deodorizing fluid is placed; C is a glass guage indicating the height of the fluid in the tank or reservoir. The reservoir is connected by a pipe D, which as well as the interior of the reservoir or tank should be made of a material not prejudicially acted on by the deodorizing fluid.
- 35 On the pipe D is a cock or valve suitably arranged to be acted on by clockwork, so that the same may be opened more or less at certain times, according as more or less of the deodorizing fluid is required, in order that the proper quantity of the deodorizing fluid may be allowed to flow into the sewer according as a greater

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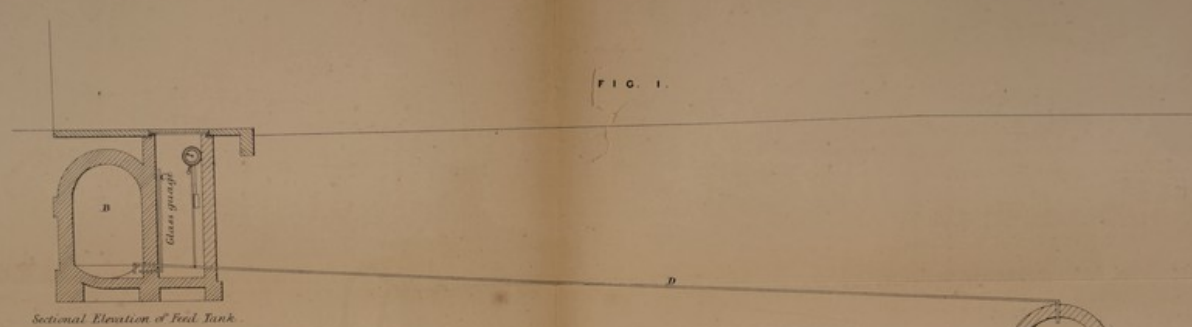
or less quantity of sewage water is known to come down the sewer at particular times. In a similar manner may a tank or reservoir and apparatus be applied to other receptacles of sewage, and when applied to a water-closet the supply may be constant or the apparatus may be arranged to act simultaneously with the ordinary supply of water to the closet by connecting the key or handle, 5 cock, or tap, on the pipe from the tank or vessel containing the deodorizing fluid with the cock or valve by which the ordinary supply of water is obtained.

In witness whereof, I, the said John Dales, have hereunto set my hand and seal, this Ninth day of May, in the year of our Lord One 10 thousand eight hundred and sixty.

JOHN DALES. (L.S.)

LONDON:

Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE,
Printers to the Queen's most Excellent Majesty. 1860.



Sectional Elevation of Feed Tank.

Section of Sewer



Sectional Plan of Feed Tank

Sectional Plan of Sewer

The filed drawing is colored.

Drawn and Etched by M. J. & S. S. S.

