

Specification of Thomas Pape : filtering and deodorizing sewage.

Contributors

Pape, Thomas, 1960-

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183 Euston Road
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A.D. 1875, 3rd May. N° 1625.

SPECIFICATION

OF

THOMAS PAPE.

FILTERING AND DEODORIZING SEWAGE.

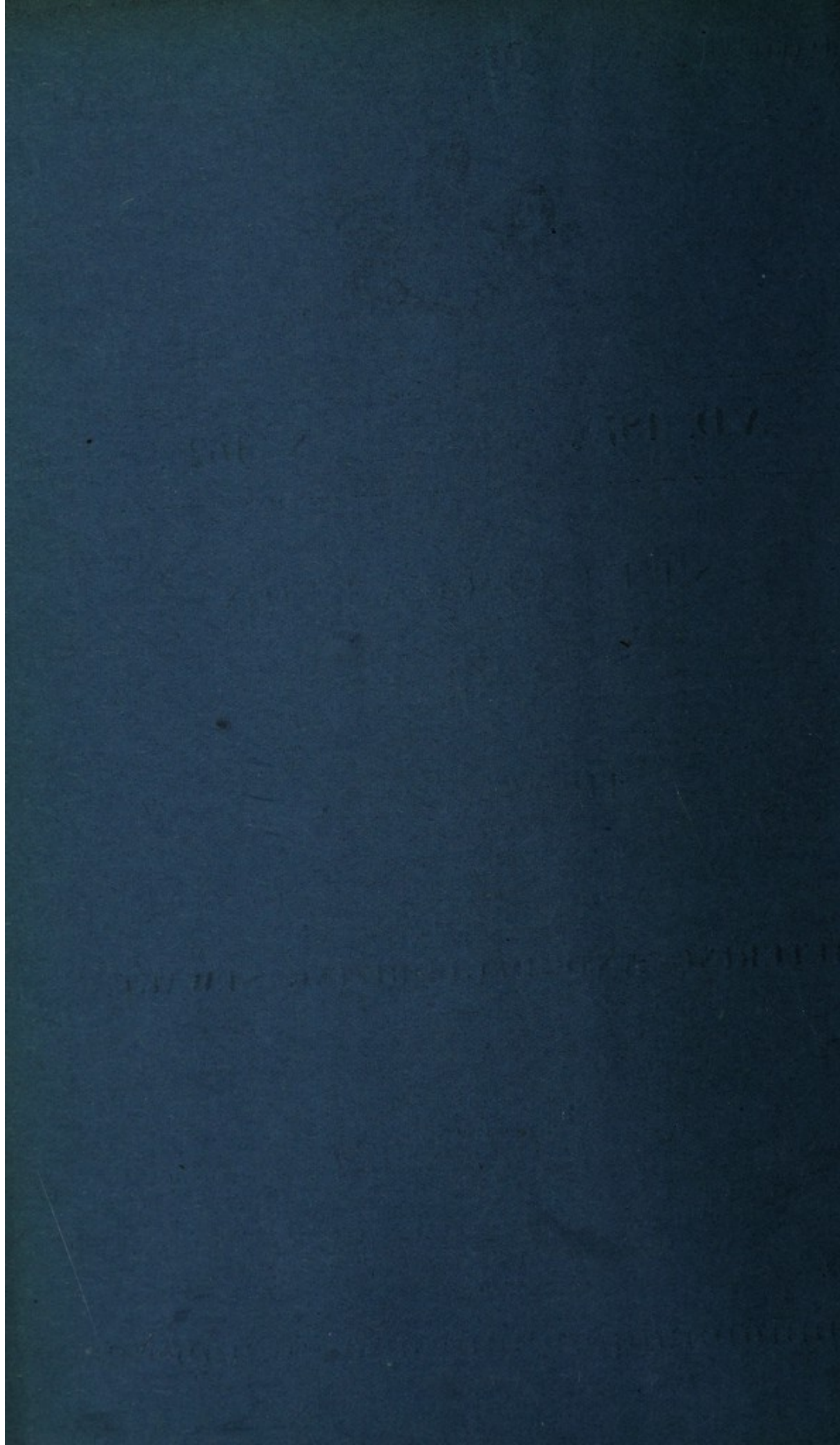
LONDON

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A.D. 1875, 3rd MAY. N° 1625.

Filtering and Deodorizing Sewage.

LETTERS PATENT to Thomas Pape, of No. 96, Great Alfred Street, in the Town and County of the Town of Nottingham, Hosiery Manufacturer, for the Invention of "**AN IMPROVED METHOD OF AND APPARATUS FOR FILTERING AND DEODERIZING SEWAGE, SO AS TO PREVENT RIVERS BEING POLLUTED THEREBY.**"

Sealed the 29th October 1875, and dated the 3rd May 1875.

PROVISIONAL SPECIFICATION left by the said Thomas Pape at the Office of the Commissioners of Patents, with his Petition, on the 3rd May 1875.

I, THOMAS PAPE, of No. 96, Great Alfred Street, in the Town and
5 County of the Town of Nottingham, Hosiery Manufacturer, do hereby declare the nature of the said Invention for "**AN IMPROVED METHOD OF AND APPARATUS FOR FILTERING AND DEODERIZING SEWAGE, SO AS TO PREVENT RIVERS BEING POLLUTED THEREBY,**" to be as follows:—

It consists of one or more cylinders of wirework or perforated metal
10 sheets (with an outer covering) put on a horizontal shaft secured to a wheel in the centre of the cylinder, and supported by rods or bars, each

Pape's Improved Apparatus for Filtering and Deodorizing Sewage.

end being open for the sewage to flow in; the cylinder, to be driven with great velocity, and will separate the watery part of the sewage from the solids; the solids adhere to the inside of the cylinder, and are removed at intervals by a self-acting scraper (or by other means), and carried outside by an inclined spout while the cylinders are in motion. 5 The machine (or machines) are driven by steam or other power, and never stop except for repairs.

The process of deoderizing is by fixing an extra perforated cylinder outside the first, and filling up the space with any known suitable deoderizing substance. 10

The claim, chief features, and objects of this Invention are, to put a quantity of machines on one or more horizontal shafts placed near the sewer level, driven by steam or other power, so as to be enabled to filter and deoderize a large quantity of sewage, the sewage flowing in at each end of the cylinder, and the solid matter running out at the opposite 15 side.

When the machinery is in motion the apparatus is self-acting, and the filtering process is constantly going on.

SPECIFICATION in pursuance of the conditions of the Letters Patent, filed by the said Thomas Pape in the Great Seal Patent Office on 20 the 1st November 1875.

TO ALL TO WHOM THESE PRESENTS SHALL COME, I, THOMAS PAPE, of No. 96, Great Alfred Street, in the Town and County of the Town of Nottingham, Hosiery Manufacturer, send greeting.

WHEREAS Her most Excellent Majesty Queen Victoria, by Her 25 Letters Patent bearing date the Third day of May, in the year of our Lord One thousand eight hundred and seventy-five, in the thirty-ninth year of Her reign, did, for Herself, Her heirs and successors, give and grant unto me, the said Thomas Pape, Her special licence that I, the said Thomas Pape, my executors, administrators, and assigns, 30 or such others as I, the said Thomas Pape, 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

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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 “AN IMPROVED METHOD OF AND APPARATUS FOR FILTERING AND DEODERIZING SEWAGE, SO AS TO PREVENT RIVERS
5 BEING POLLUTED THEREBY,” upon the condition (amongst others) that I, the said Thomas Pape, 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
10 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.

NOW KNOW YE, that I, the said Thomas Pape, do hereby declare the nature of my said Invention, and in what manner the same is to
15 be performed, to be particularly described and ascertained in and by the following statement thereof, reference being had to the accompanying Drawings, that is to say:—

My Invention relates to the construction of a double self-acting centrifugal machine to filter and deoderize sewage. The cylinders are fixed
20 on a steel shaft, as shewn in the Drawing Number 1; the shaft is supported by cast-iron standards or in brickwork, according to circumstances. A pulley wheel No. 2 is fixed in the centre of the shaft, and a perforated copper or zinc cylinder No. 3 is attached to the pulley wheel. The sewage passes into the machine through pipes at either end, as shewn by
25 No. 4, and from the said pipes flows into a weir, as shewn by No. 5. The cylinder revolves by steam power at a rapid rate, and the dead matter accumulates on the inside of the inner cylinder, and is removed by a self-acting scraper and brush, as shewn by No. 6. When the scraper has done its work the dead matter falls into an inclined spout or
30 spouts, as shewn by No. 7, and passes out at both ends of the machine into a vessel placed for the purpose of receiving it, and is easily removed when full. There is an outer screen No. 9 covering the inner cylinder, leaving a sufficient space for the purpose of holding and collecting the watery part of the sewage after the dead matter is separated, and at the
35 bottom of the said screen there are apertures through which the watery part of the sewage flows away.

For the purpose of deoderizing there is an extra perforated or wire-work cylinder No. 8 fixed between No. 3 cylinder and No. 9 screen,

Pape's Improved Apparatus for Filtering and Deodorizing Sewage.

forming a vacuum between No. 8 and No. 9, which is filled with a deoderizing substance. The said case No. 8 can be taken off or dispensed with when not required for the deoderizing process.

In witness whereof, I, the said Thomas Pape, have hereunto set my hand and seal, this Twenty-eighth day of October One thousand 5 eight hundred and seventy-five.

THOMAS PAPE. (L.S.)

Signed, sealed, and delivered
by the said Thomas Pape,
in the presence of

GEORGE W^M. BINNS,

62, Chancery Lane,

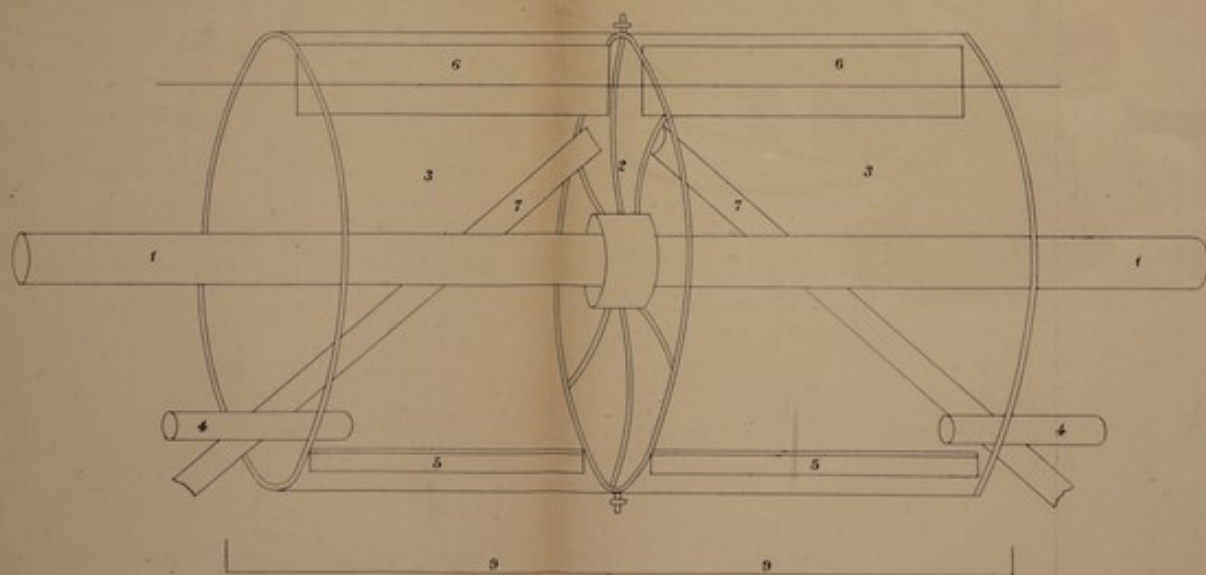
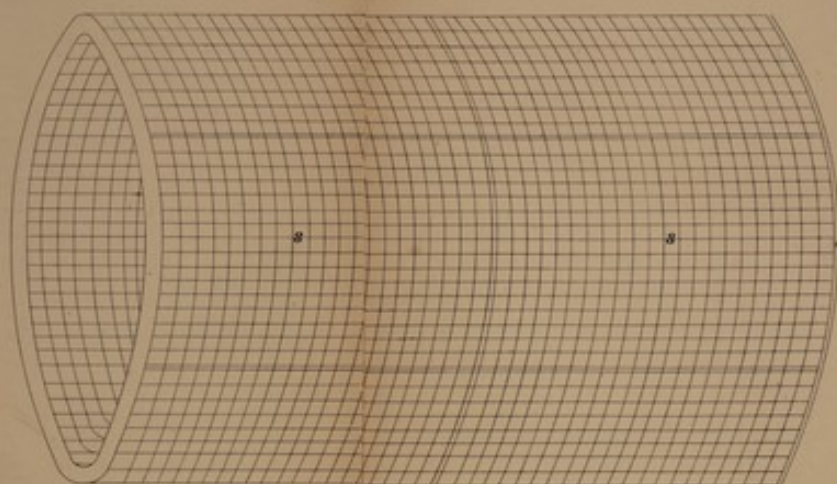
London, W.C.,

Solicitor.

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The filed drawing is not colored.

