

## **Specification of John Yule : removing sewage.**

### **Contributors**

Yule, John.

### **Publication/Creation**

London : Great Seal Patent Office, 1869 (London : George E. Eyre and William Spottiswoode)

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A.D. 1868, *28th August.* N<sup>o</sup> 2666.

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S P E C I F I C A T I O N

OF

JOHN YULE.

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REMOVING SEWAGE.  
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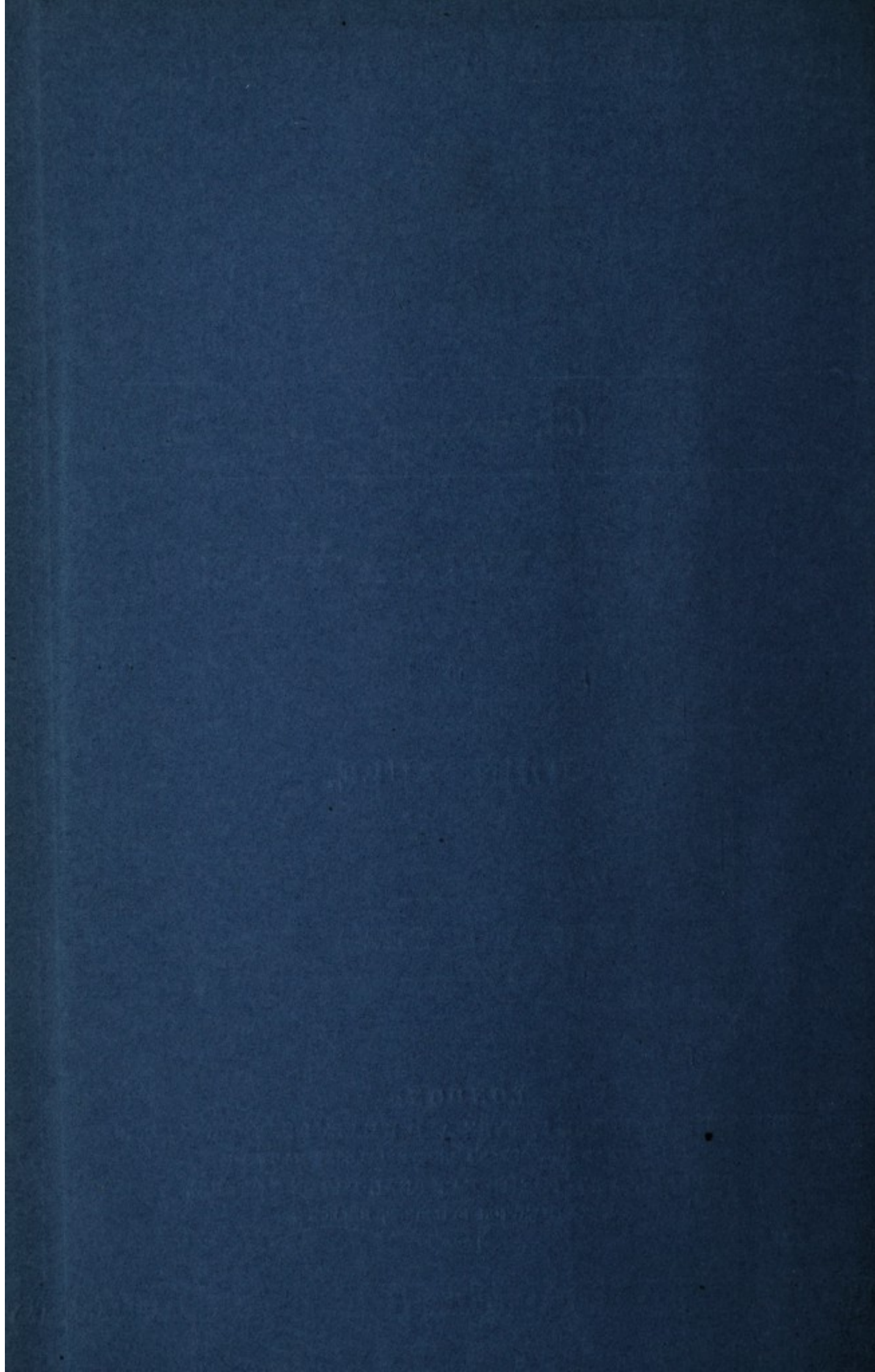
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A.D. 1868, 28th AUGUST. N° 2666.

## Removing Sewage.

*(This Invention received Provisional Protection only.)*

PROVISIONAL SPECIFICATION left by John Yule at the Office of the Commissioners of Patents, with his Petition, on the 28th August 1868.

I, JOHN YULE, of Glasgow, in the County of Lanark, North Britain,  
5 Engineer, do hereby declare the nature of the said Invention for  
"IMPROVEMENTS IN ARRANGEMENTS AND APPARATUS FOR DEALING WITH SEWAGE,"  
to be as follows, that is to say :—

This Invention relates to improved arrangements for dealing with  
sewage, more particularly in connection with the watercloset system,  
10 and comprises simple and economical apparatus for intercepting the  
sewage at or near dwelling-houses so as to prevent its discharge into  
the main sewers, and also apparatus for removing it.

The main features of the Invention are the employment of compressed  
air (alone or in combination with exhaustion) for transferring the sewage  
15 from closed receptacles into which the dwelling-house soil pipes dis-  
charge thence into closed tank carts, and the furnishing of such tank  
carts or accessory carts with air pumps driven by horse gear for com-  
pressing or exhausting the air employed.

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*Yule's Improved Apparatus for Removing Sewage.*

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In carrying out the Invention a closed tank or vessel is placed at the bottom of one or more dwelling-house soil pipes, the inlets thereinto from such pipes being fitted with simple flap valves, which whilst admitting the sewage prevent the compressed air from passing into the pipes. The tank is provided with a pipe for discharging the contents, 5 such pipe being by preference fitted to the top and projecting down inside to within a few inches from the bottom. A second smaller pipe is fitted to the top of the tank to admit the compressed air, and this pipe may also be projected down inside so that the air entering by it may agitate the contents, if this is found necessary, to prevent their adhering 10 to the sides. Both pipes are fitted with stop valves and couplings to connect with flexible or jointed pipes from the tank cart. The pump for compressing the air (or which may be used for exhausting it if preferred) is placed on the tank cart and is arranged to be driven by horse gear, so that the horse which moves the cart from place to place may be availed 15 of for the pumping operation. The gear will consist principally of a vertical shaft mounted on the top of the cart and having fixed to it an overhanging pole or lever to be drawn by the horse walking round the cart. The pump or pumps may be driven from the vertical shaft by any suitable mechanism in use for such purpose. When the pipes are con- 20 nected and the air forced by one pipe into the house tank the pressure acting on the surface of the contents will cause them to pass by the other pipe into the tank cart.

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