

Specification of John Flewitt Milnes : utilizing sewage.

Contributors

Milnes, John Flewitt.

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A.D. 1873, 31st OCTOBER.

N° 3541.

SPECIFICATION

OF

JOHN FLEWITT MILNES.

UTILIZING SEWAGE.

LONDON:

PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,

PRINTERS TO THE QUEEN'S MOST EXCELLENT MAJESTY:

PUBLISHED AT THE GREAT SEAL PATENT OFFICE,

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Price 4d.

1874.





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A.D. 1873, 31st OCTOBER. N° 3541.  
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Utilizing Sewage.

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*(This Invention received Provisional Protection only.)*

**PROVISIONAL SPECIFICATION** left by John Flewitt Milnes at the Office of the Commissioners of Patents, with his Petition, on the 31st October 1873.

I, JOHN FLEWITT MILNES, of Park Valley, in the County of Nottingham, do hereby declare the nature of the said Invention for "**IMPROVEMENTS IN APPARATUS FOR UTILISING SEWAGE,**" to be as follows :—

In convenient places in the sewer I cause a series of pits to be sunk in and below the bottom of the sewer of from eight to ten yards deep, more or less, according to the amount of sewage passing through the sewer ;  
10 the diameter of the said pits will vary, say in a sewer of five feet diameter, the mouth or top of the pit will be about three feet, which being quite open the solid parts of the sewage will quickly fall to the bottom, the pit being constantly full there will be a continual deposit of matter going on so that in a short time the pits will be full of manure  
15 of considerable value; the deposit in the pits may be assisted by employing a grating or gratings on the edge of the pits on the fall side; these gratings the nearer they are to the outfall of the sewer I prefer should be made a finer gauge, thereby ensuring the water passing being

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*Milnes' Improvements in Apparatus for Utilizing Sewage.*

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comparitively free from solid matter; the sewage after passing the pits and grates may be caused to pass through filtering strata of divers sorts.

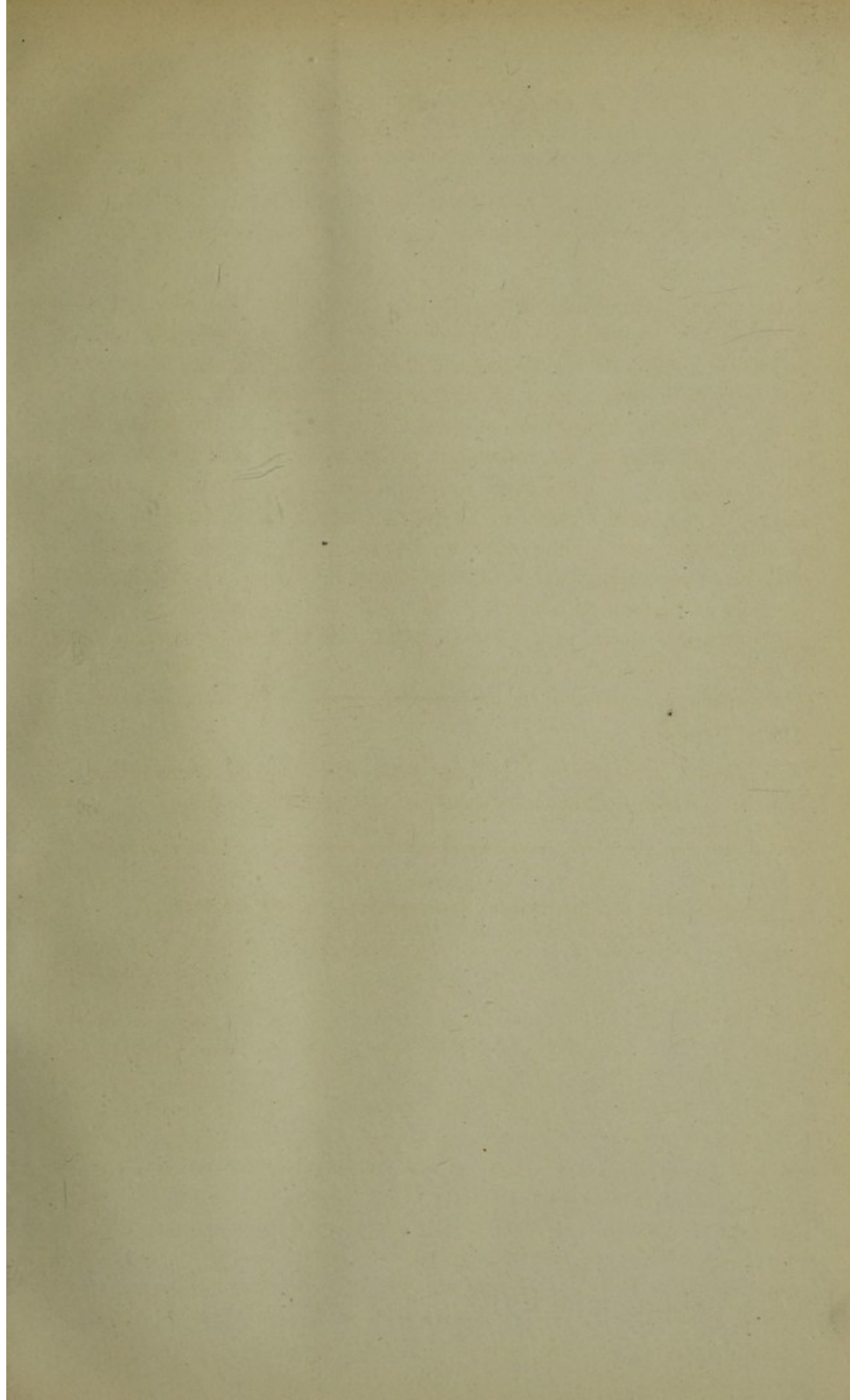
The means I employ for removing the deposits from the pits are as follows:—On the crown of the sewer over each pit an opening is made 5 or left when built of a size to correspond to the size of the pit. Through this opening I lower a tube of iron or other material by means of a crane or other equivalent means on to the top of the pit; the bottom of the tube fits close to the top of the pit so as to exclude the flowing sewage at the top of the pit, and yet not hinder its escape past the tube. 10 The top of the tube I construct so as to conform to the shape of the opening in the crown of the sewer, so as to effectually prevent the escape of offensive gas during the operation of emptying the pit. I then lower a bucket or buckets with valves or moveable bottoms into the pit, and when the proper depth is reached I cause the said valves or bottoms to 15 be closed so as to retain the manure in the bucket, which is then raised by a windlass or equivalent means, and the manure is deposited in a cart or other receptical.

Instead of a bucket or buckets I may prefer to employ an Archemedion screw or equivalent contrivance to lift the manure from the pits. 20

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Printers to the Queen's most Excellent Majesty. 1874.



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