

Specification of James Alexander Manning : manufacture of manure.

Contributors

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A.D. 1858, 1st FEBRUARY. N° 179.

SPECIFICATION

OF

JAMES ALEXANDER MANNING.

MANUFACTURE OF MANURE.

LONDON:

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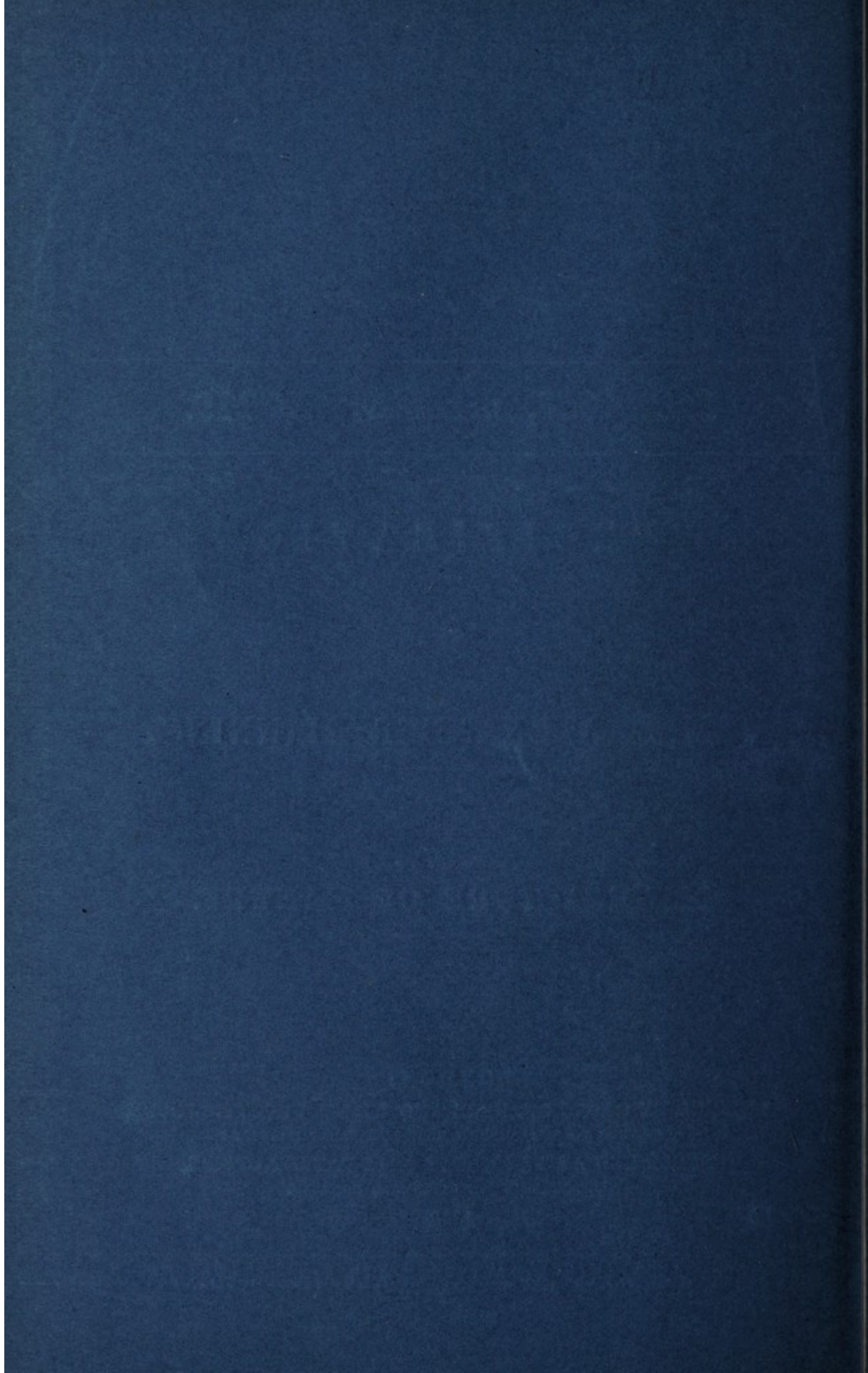
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A.D. 1858, 1st FEBRUARY. N° 179.

Manufacture of Manure.

LETTERS PATENT to James Alexander Manning, of the Inner Temple, in the County of Middlesex, Esquire, for the Invention of "**IMPROVEMENTS IN THE MANUFACTURE OR PRODUCTION OF MANURE.**"

Sealed the 30th July 1858, and dated the 1st February 1858.

PROVISIONAL SPECIFICATION left by the said James Alexander Manning at the Office of the Commissioners of Patents, with his Petition, on the 1st February 1858.

I, JAMES ALEXANDER MANNING, of the Inner Temple, in the County of Middlesex, Esquire, do hereby declare the nature of the said Invention for "**IMPROVEMENTS IN THE MANUFACTURE OR PRODUCTION OF MANURE,**" to be as follows, that is to say:—

This Invention relates to the manufacture or production of manures or fertilising agents from sewerage liquids in combination with the dry wastes of towns. The sewerage flow is collected and treated with alum sludge, or its chemical equivalents, or some of them, and the supernatant liquid is permitted to flow away in a clarified condition. The solid or semi-fluid matter resulting from this treatment is then deposited in a proper receptacle and mingled with any dry wastes or refuse of towns, including all those matters, such as street droppings and mud, ashes, and fecal matters, substances which do not necessarily form a part of the sewerage discharge. This mixture produces a solid, easily portable, fertiliser of great agricultural value. The sewerage

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matter may be primarily treated in other ways or by other chemical agents, the essential object of the present Invention being the application or employment of sewerage matter in combination with the dry wastes of towns in the manufacture of manures. The alum sludge, or its chemical equivalents, is or may be combined with lime or chloroform, refuse charcoal, and other matters. 5

SPECIFICATION in pursuance of the conditions of the Letters Patent, filed by the said James Alexander Manning in the Great Seal Patent Office on the 31st July 1858.

TO ALL TO WHOM THESE PRESENTS SHALL COME, I, JAMES ALEXANDER MANNING, of the Inner Temple, in the County of Middlesex, 10 Esquire, send greeting.

WHEREAS Her most Excellent Majesty Queen Victoria, by Her Letters Patent, bearing date the First day of February, in the year of our Lord One thousand eight hundred and fifty-eight, in the twenty-first year of Her reign, did, for Herself, Her heirs and successors, give and grant unto me, 15 the said James Alexander Manning, Her special license that I, the said James Alexander Manning, my executors, administrators, and assigns, or such others as I, the said James Alexander Manning, my executors, administrators, or 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 20 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 THE MANUFACTURE OR PRODUCTION OF MANURE**," upon the condition (amongst others) that I, the said James Alexander Manning, by an instrument in writing under my hand and seal, 25 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.

NOW KNOW YE, that I, the said James Alexander Manning, do hereby 30 declare the nature of my said Invention, and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement, that is to say :—

My said Invention relates to the manufacture or production of manures or fertilising agents from sewerage liquors in combination with the dry wastes 35 of towns.

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According to this Invention, I propose to collect the sewerage flow in suitable tanks or reservoirs, and there mix it, for the purpose of precipitating the solid matters, with alum sludge or its chemical equivalents, prepared in the manner described in the Specification of my Patent for "Improvements in the
5 treatment of sewerage," bearing date the Seventh of August, One thousand eight hundred and fifty-five, or in any other convenient manner. The supernatant and clarified liquid is then permitted to flow off, and may be advantageously employed for the irrigation of land. The remaining solid or semi-fluid matter resulting from the treatment above referred to, is then deposited
10 in a suitable receptacle, and mingled with the dry wastes or refuse of towns, including refuse matter from manufactories, and all those matters contained in the house dust-bins, or pits, privies, or middens, such as ashes, decayed refuse vegetable matter, fecal matter, and also, if found advantageous, the sweepings, droppings, and offal of roads, streets, and markets, and other refuse
15 matters of a fertilising nature which do not form a part of the ordinary sewerage discharge.

To facilitate the formation of this mixture into matter sufficiently solid for carting, the refuse matters, before being added to the sewerage, may be more or less ground or pulverised if found desirable. By this means a solid easily
20 portable fertiliser, of great agricultural value, will be obtained.

I do not confine myself, however, to the method described in my Specification herein-before referred to, for precipitating the solid constituents of the sewerage, as it may be primarily treated for the purpose of precipitation in other ways, or by other chemical agents; the essential feature of my present
25 Invention being the application or employment, in the manufacture of manure, of the solid portions of sewerage, produced by suitable precipitating agents, and subsequently mixing them with the dry wastes of towns, whereby a speedy removal is effected of those matters which, when allowed to remain for a length of time in the areas of London houses, or the immediate neighbourhood of
30 dwelling houses, generally tend greatly to deteriorate the sanitary condition of a town.

The alum sludge, or its chemical equivalents, may be combined, if found desirable, with refuse charcoal and other matters.

Having now described and particularly ascertained the nature of my said
35 Invention, and the manner in which the same is or may be used or carried into effect, I would observe, in conclusion, that I do not confine or restrict myself to the precise details or arrangements which I have had occasion to describe or refer to, as variations may be made therefrom without deviating from the principles or main features of my said Invention; but what I consider

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to be novel and original, and therefore claim as the Invention secured to me by the herein-before in part recited Letters Patent is,—

First, the general system or mode of preparing manure from sewerage matter and dry waste, as herein-before described.

Second, the combination of the dry wastes of towns with the solid portions of sewerage, obtained by precipitation, for the purpose of producing a manure or fertilising agent, as herein-before described.

In witness whereof, I, the said James Alexander Manning, have hereunto set my hand and seal, this Thirtieth day of July, One thousand eight hundred and fifty-eight.

10

JAMES ALEX. MANNING. (L.S.)

LONDON:

Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE,
Printers to the Queen's most Excellent Majesty. 1858.