

Specification of Charles Finlay Oliphant Glassford : manure.

Contributors

Glassford, Charles Finlay Oliphant.

Publication/Creation

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A.D. 1858, *3rd NOVEMBER.* N° 2451.

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

OF

CHARLES FINLAY OLIPHANT GLASSFORD.

—
M A N U R E .
—

L O N D O N :

PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,
PRINTERS TO THE QUEEN'S MOST EXCELLENT MAJESTY :

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1859.

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A.D. 1858, 3rd NOVEMBER. N° 2451.

Manure.

(This Invention received Provisional Protection only.)

PROVISIONAL SPECIFICATION left by Charles Finlay Oliphant Glassford, at the Office of the Commissioners of Patents, with his Petition, on the 3rd November 1858.

I, CHARLES FINLAY OLIPHANT GLASSFORD, of Greenwich, in the County of
5 Kent, Chemist, do hereby declare the nature of the said Invention for
"IMPROVEMENTS IN THE MANUFACTURE OF MANURE FROM THE EXCRETA OF TOWNS,"
to be as follows:—

My said Invention consists in applying sulphuric acid or other suitable acid
to neutralize the ammoniacal constituents of the collected excrementitious
10 matters of towns, and in afterwards evaporating, pressing, and mixing as may
be required the several products in any desired proportions to obtain different
qualities of the same. By preference I employ sulphuric acid, but it is
obvious that other acids are applicable for neutralization, and whenever too
much acid has been used, it may be neutralized by adding chalk or other like
15 cheap materials. I also introduce carbonaceous and other matters having a
deodorizing effect, and for assisting the settling of the solid matters from the liquid.
The evaporating may be conducted in flue boilers, employing the steam to heat
evaporating pans, and causing a continual flow to and from the boiler to take
place, as in similar processes of evaporating thick liquids, which process yields
20 crystalline and solid products. The precipitated material may have its fecal
matter solidified by pressing in presses of known construction, and the products
resulting therefrom may be mixed to obtain a manure having the properties
of guano, or in proportions for other varieties of manures possessing the
requisite inorganic constituents.

LONDON:

Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE,
Printers to the Queen's most Excellent Majesty. 1859.

