

102,081

PATENT



SPECIFICATION

Application Date, Feb. 14, 1916. No. 2172/16.

Complete Left, July 28, 1916.

Complete Accepted, Nov. 16, 1916.

PROVISIONAL SPECIFICATION.

Improvements in the Treatment of Seeds.

We, CHARLES EDWARD DE WOLF, of 52, Lime Street, London, E.C., Shipowner, and HENRY ERNEST FRY, of Godmanstone, Dorchester, Dorset, Gentleman, do hereby declare the nature of this invention to be as follows:—

5 This invention relates to the treatment of seeds before they are sown in order to render them more productive.

According to this invention seeds are steeped before they are sown in natural mineral waters similar to those which are used for therapeutic purposes and which contain solutions of nitrogen, chlorine and other gases and small quantities of metallic salts after which the seeds should be sown as promptly as possible. Cereals may be steeped for twenty-four hours, and other seeds for longer or shorter time according to their nature. The time for treating cereals may be shortened by passing a current of electricity through the solutions. A current in the proportion of three quarters of an ampere per ten gallons of the waters is to be preferred.

15 After the treatment of the cereals is completed they are preferably sprinkled with a small quantity of petroleum and within a few hours they will be in condition for sowing.

Dated the 12th day of February, 1916.

CHARLES E. DE WOLF.
HENRY E. FRY.

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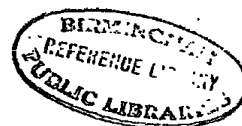
COMPLETE SPECIFICATION.

Improvements in the Treatment of Seeds.

We, CHARLES EDWARD DE WOLF, of 52, Lime Street, London, E.C., Shipowner, and HENRY ERNEST FRY, of Godmanstone, Dorchester, Dorset, Gentleman, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to the treatment of seeds before they are sown in order to render them more productive.

[Price 6d.]



According to this invention seeds are steeped before they are sown in natural mineral waters similar to those which are used for therapeutic purposes and which contain solutions of nitrogen, chlorine and other gases and small quantities of metallic salts after which the seeds should be sown as promptly as possible. Cereals may be steeped for twenty-four hours, and other seeds for longer or shorter time according to their nature. The time for treating cereals may be shortened by passing a current of electricity through the solutions. A current in the proportion of three quarters of an ampere per ten gallons of the waters is to be preferred. 5

Preferably the seeds are treated in wooden or earthenware tanks in quantities not exceeding eighteen inches in depth and they are kept well covered with the solution and occasionally stirred. 10

After treatment cereals are spread on a suitable floor and sprinkled with about half a pint of petroleum per bushel and then turned over three or four times. Within a few hours they will be in condition for sowing. Alternatively they may be well dried in a drying machine or in a hot room at a temperature of about 90° F. 15

Having now particularly described and ascertained the nature of our said invention and in what manner the same is to be performed, we declare that what we claim is:— 20

1. Treating seeds before sowing by steeping in natural mineral waters which contain solutions of nitrogen, chlorine and other gases and small quantities of metallic salts, substantially as described.

2. The treatment of seeds before sowing substantially as described.

Dated the 28th day of July, 1916. 25

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