

United States Patent Office.

CHARLES LOUIS FLEISCHMANN, OF WASHINGTON, DISTRICT OF COLUMBIA.

Letters Patent No. 89,750, dated May 4, 1869.

IMPROVED PROCESS OF EXTRACTING OIL FROM COTTON-SEEDS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, CHARLES LOUIS FLEISCHMANN, of the city of Washington, in the District of Columbia, have invented a new and improved Process of Extracting Oil from Cotton-Seeds and other oleaginous seeds; and I do hereby declare that the following is a full and exact description of the process.

To enable others skilled in the art to make and use my invention, I will describe the process.

The seeds from which the oil is to be extracted are placed upon a floor, either in layers or heaps, and sprinkled over with a strong solution of an alkaline lye, until every seed is brought in contact with the lye. The heaps or layers are left undisturbed till the temperature of the seeds begin to rise, when they are turned over, in order to lower the temperature and to prevent decomposition of the oil. The seeds must be turned every time the temperature rises, and it is thus continued till the husks become perfectly softened. When the husks have arrived at the proper state of mollification, they are crushed to a fine pulp, between rollers, and the pulp is again placed in layers or heaps, and is thoroughly impregnated with a weaker lye.

This lye is applied warm, in order that the combination with the oil may be accelerated. When this combination has been attained, the pulp is now placed in vats, which are provided with perforated bottoms, and weak warm alkaline solutions are passed through the pulp until all the oleaginous matter is washed from it.

The lye which has passed through the pulp is collected in flat vats, where the separation of the saponaceous combination takes place. It rises gradually, when left undisturbed for some time, to the top. This saponaceous matter is collected and treated with sulphuric acid, in order to obtain the oil.

The macerated pulp is pressed, and all the liquid separated from it, when it can be used for manure.

What I claim as my invention, and desire to secure by Letters Patent, is—

The process, substantially as herein described, of extracting the oil from seeds.

CHS. L. FLEISCHMANN.

Witnesses:

LEWIS I. DAVIS,
D. B. LYLES.