

United States Patent Office.

OSCAR LOEW, OF NEW YORK, N. Y., ASSIGNOR TO JOHN M. PENDLETON,
OF SAME PLACE.

Letters Patent No. 101,284, dated March 29, 1870.

IMPROVED METHOD OF BLEACHING AND REFINING OILS.

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, OSCAR LOEW, of the city of New York, in the State of New York, have devised and invented a new Process or Method of Bleaching and Refining Animal, Vegetable, and Mineral Oils, which I designate as the cold process, and of which the following is a specification.

I take crude and impure oil of either an animal, vegetable, or mineral origin, and first wash it one or more times, as required, with cold water, in order to remove the salts soluble in water, and such other impurities as may be mechanically removed. The residuums resulting from this process may be concentrated and used for fertilizing purposes.

If the oil to be bleached contains a large amount of gummy matter, it is next heated, with one-half to two per cent. of sulphuric acid, 66° Baumé, and after a thorough commingling, it is left to repose. When fully settled, the clearer oil is drawn off from the dark sediment.

After the oil has passed through either one or both of the processes above detailed, I then add from two to six per cent. (preferably six per cent.) of a strong solution of caustic soda, about 40° Baumé, or potash or milk of lime, and secure a complete commingling by the ordinary process of stirring. After about twelve hours of repose the sediment generally known

as "foots," containing the remaining impurities, will be completely deposited, and the supernatant oil quite pure, and of a light color. If any turbidity remains it is removed by filtering, and the oil bleached white in the manner and by the process already extensively in use for that purpose.

By my invention I obtain a better quality of oil, having a superior body, and less liable to become rancid than that resulting from the processes heretofore in use.

I am aware that my chemical agents have before been used for the purpose of bleaching oils, and I do not wish to be understood as claiming them, but having now fully described my process,

What I do claim, and desire to secure by Letters Patent, is—

1. A cold process for bleaching and refining animal, vegetable, and mineral oils, substantially as described.
2. The application of the agents named, or any two of them successively, to the bleaching or refining oils without the use of heat other than that evolved by the chemical reaction.

OSCAR LOEW.

Witnesses:

ISIDOR WALZ,
CHAS. A. CROW.