

UNITED STATES PATENT OFFICE.

AQUILLA JONES, OF NEW YORK, N. Y.

IMPROVEMENT IN DRYING PAINTS.

Specification forming part of Letters Patent No. 7,773, dated November 12, 1850.

To all whom it may concern:

Be it known that I, AQUILLA JONES, of New York, in the county of New York and State of New York, have invented or discovered a new and Improved Method of Preparing Drying Materials for Oils, to be used in Paints; and I do hereby declare the following to be a full, clear, and exact description of the same, samples being herewith furnished as required by law.

The nature of my invention consists in providing a new material as a drying substance, to be mixed with linseed or other oils, to be used in zinc and other paints, in order that the oil so prepared will cause the paints to dry more effectually than in the known processes.

To enable others to compound and use my invention or discovery, I will proceed to describe it particularly.

I provide the mineral commonly known by the name of the "red oxide of zinc," (of which inexhaustible quantities are found in Sussex county, New Jersey.) This is generally associated with other mineral substance called "franklinite," from which I prefer to separate it, either wholly or in part. The method that I have found most advantageous is to subject the ore to the action of heat, by which it is partially deoxidized, and also rendered so pliable as to be easily reduced to powder. In this state a great portion of the franklinite may be separated by sifting. The other portion of the ore is then well mixed with the oil and then subjected together in the action of

heat, after which that part of the ore not chemically combined with the oil may be easily separated by subsidence and straining. At the expiration of an hour or two, more or less, according to the degree of heat applied, (which should not be carried beyond the boiling-point of oil,) and the quantity of material used, which may be more or less, it will be found that the oil has acquired a valuable drying property.

One of the advantages of the material I use over litharge and the oxide of manganese usually employed is that some of the various substances composing the material I use unite with a portion of the coloring-matter of the oil, which is separated with them, leaving the oil of a brighter color and more transparent. This effect of improving the color may be still further attained by adding to the red oxide of zinc charcoal and other carbonaceous substances frequently employed for that purpose.

What I claim as my invention is—

A method of giving a drying quality to oils by the use of a mineral commonly known by the name of the "red oxide of zinc" in a partially deoxidized state, and either in combination with those substances naturally associated with it or by the use of any of its component parts separated by mechanical means.

AQA. JONES.

Witnesses:

J. L. KINGSLEY,
GEO. STOKER.