

UNITED STATES PATENT OFFICE.

GEORGE W. BANKER, OF BROOKLYN, NEW YORK.

PAINT-OIL.

SPECIFICATION forming part of Letters Patent No. 474,434, dated May 10, 1892.

Application filed March 25, 1891. Serial No. 386,357. (Specimens.)

To all whom it may concern:

Be it known that I, GEORGE W. BANKER, a citizen of the United States, and a resident of Brooklyn, in the county of Kings and State of New York, have invented a certain new and useful Improvement in Paint-Oils, of which the following is a specification.

My invention relates to an improvement in oils for use in paint and the manufacture of paint. It has been known for a long time that the semi-drying fish-oils—such, for instance, as the menhaden, the porgy, and like oils—are peculiarly valuable for outside paint. They are more durable and resist the action of the elements better than linseed-oil, which is a vegetable oil. The manufacturers and users of paints, however, are opposed to the use of these fish-oils, because of a peculiarly offensive, and by some supposed to be an unhealthy, odor which accompanies its use. This is especially true during the process of manufacture—i. e., the grinding and treatment in the mill.

My invention consists in a treatment of the above-mentioned and other similar fish-oils with naphthaline crystals, whereby the objectionable fishy odor is removed and the oil is rendered perfectly inoffensive if not pleasant to the smell; also, the crystals add to it measurably, although not to any considerable extent, a drying quality. Thus the amount of drier required is not so great.

I carry out my invention as follows: I first take any desired quantity of the said fish oil or oils in their refined and merchantable condition and, placing the oil in a suitable kettle or tank, I heat it to a degree somewhat less than 212° Fahrenheit. In fact the degree of temperature is not specially material; but the

warmer it is up to about 212° the more readily the crystals will dissolve. I then add to the heated oil from three to ten per cent. of ordinary commercial naphthaline crystals of a good or medium grade. They are added gradually, and the oil is stirred or agitated meantime. The crystals dissolve readily, especially if the oil is quite hot, so that a few minutes only is necessary. I prefer, however, to continue the stirring operation for some time after the crystals have apparently dissolved, so as to insure their perfect dissolution and the production of a permanent and homogeneous emulsion. Upon cooling it will be found that the crystals have entirely or materially removed the fish odor; depending upon the quality of the oil and the proportion of crystals used. This oil is then to be used as such oils ordinarily are used in the paint art, suitable driers being used, as is well understood.

I am aware that naphthaline has been employed in a paint compound or paste-like mass composed of oils, paraffine, Japan wax, beeswax, and various other substances as a coating for ships' bottoms, &c. I lay no claim to such a compound. My invention has relation to the oil as a new article of manufacture.

Having described my invention, I claim—

As a new article of manufacture, a paint-oil composed of a solution of naphthaline in fish-oil, substantially as set forth.

Signed at New York, in the county of New York and State of New York, this 23d day of March, A. D. 1891.

GEO. W. BANKER.

Witnesses:

PHILLIPS ABBOTT,
CHARLES RYDER.