

UNITED STATES PATENT OFFICE.

ADOLPH MILLOCHAU, OF NEW YORK, N. Y., ASSIGNOR TO JOSEPH W. RICHARDS, OF SAME PLACE.

IMPROVEMENT IN LUBRICATING COMPOUNDS.

Specification forming part of Letters Patent No. 115,342, dated May 30, 1871.

I, ADOLPH MILLOCHAU, of the city and State of New York, have invented a new and useful Improvement in the Manufacture of Lubricating Compounds for Lubricating Machinery and for other purposes; and hereby declare the following is an exact description thereof.

The compound is produced in three forms: first, a semi-fluid substance for use in any of the lubricating-cups; second, an oil or liquid substance, to be used with or without cotton-waste or any proper packing; and third; combining, with the semi-fluid substance or compound, animal hair.

I take ten pounds of caustic soda, in liquid form, at about 16° Baumé scale, twenty pounds of a good quality of tallow, and forty pounds of petroleum-oil, refined or not refined, or in any of its various forms, with the lighter vapors removed, place these together in a kettle over a fire, or otherwise submit them to heat until the mixture ceases to foam, which will occur at a temperature of about 500° Fahrenheit scale, and the whole forms a uniform semi-fluid substance when cold. In this operation the compound will lose about twenty-three per cent. of its weight, and will be prevented from melting or taking fire from ordinary or light friction, and be left of a consistency and tenacity of ordinary lubricating grease.

This mixture, in the condition left by the foregoing treatment, is placed in bags or other similar inclosures, and submitted to pressure to any desirable extent, and should be so pressed until as much of the oil or liquid substance as desirable is removed.

The liquid or oil thus removed forms a su-

perior lubricator, to be used with or without cotton-waste or other suitable packing, as other oils or other liquids are or may be used for lubricating purposes; and the semi-fluid compound left in the press may be applied by means of lubricating-cups or other similar appliances and in any desirable manner.

To the pressed or semi-fluid product of the compound I add animal hair in about the proportion of five pounds of hair to one hundred pounds of the pressed product, and thoroughly mix and incorporate them. In this form it may be used in the ordinary lubricating boxes or receptacles without cotton-waste or other packing.

While I believe that the combination of materials and treatment described will produce the best results, I do not desire to be understood as limiting my invention to the exact proportions named or the precise treatment described; but

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

1. The combination of caustic soda, tallow, and petroleum, or their respective chemical equivalents, in about the proportions set forth, compounded and treated substantially in the manner described.

2. Combining with the semi-fluid compound thus produced, or its chemical equivalents, animal hair in about the proportion and as and for the purpose specified.

Dated April 29, 1871.

A. MILLOCHAU.

Witnesses:

DAN READ,

THOS. VAN ANTWERP.