

UNITED STATES PATENT OFFICE.

CHARLES TOPPAN, OF WAKEFIELD, MASSACHUSETTS.

IMPROVEMENT IN LUBRICATING COMPOUNDS.

Specification forming part of Letters Patent No. **186,640**, dated January 23, 1877; application filed October 30, 1876.

To all whom it may concern:

Be it known that I, CHARLES TOPPAN, of Wakefield, Middlesex county, Massachusetts, have invented a new Lubricating Composition, of which the following is a specification:

The object of my invention is to make a composition which can be used as a lubricant without leaving a permanent stain on any fabric with which it may be brought in contact.

I have ascertained that the expressed oil of mustard-seed has a peculiar effect on, or in conjunction with, petroleum or other mineral oils; for instance, if the mustard-seed oil be applied to a petroleum stain on the fabric, and the latter be subsequently washed with ordinary soap, or an alkali and water, the stain will be effectually removed.

A most important application of this discovery of a peculiar property of mustard-seed oil is the manufacture of a lubricant composed of the said oil and petroleum, or other mineral oil.

This lubricant may be used to advantage on cotton, woolen, or other machinery connected with the manufacture of textile fabrics; for if the fabric be stained with this lubricant the stain can be readily washed out with alkali or an alkaline soap and water. While a stain of an ordinary mineral lubricant will interfere with the usual processes of bleaching, dyeing, and printing of fabrics,

the new composition has no such effect. In oiling wool, especially, the new lubricant will be of especial service, owing to the facility with which it can be removed by washing.

As to the proper proportion of mineral oil and mustard-seed oil, that will depend in a great measure on the peculiarities of the mineral oils, and on the uses to which the composition has to be applied. I may state, however, that I have made a very superior lubricating-oil by mixing together the mineral oil known in the market as "paraffine" oil with mustard-seed oil, in the proportion of about seven of the former to one of the latter; and I have varied these proportions without any material alteration as to the above-mentioned peculiar properties of the composition.

Paraffine-wax, thick oil, and other products of petroleum may be mixed with the oil of mustard-seed, so as to produce a thick lubricant possessing the above-described property.

I claim as my invention—

A new composition of matter, consisting of a mixture of the expressed oil of mustard-seed with petroleum, or other mineral oils.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CHARLES TOPPAN.

Witnesses:

HERMANN MOESSNER,
HARRY SMITH.