

United States Patent Office.

SAMUEL GIBBONS, OF FREEDOM, PENNSYLVANIA, ASSIGNOR TO ^{the} EXCELSIOR OIL-MANUFACTURING COMPANY OF PENNSYLVANIA.

Letters Patent No. 87,658, dated March 9, 1869.

IMPROVED PROCESS OF PREPARING PETROLEUM TO BE USED IN LUBRICATING WOOL.

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, SAMUEL GIBBONS, of Freedom, in the county of Beaver, and in the State of Pennsylvania, have invented a new and useful Process for Preparing Petroleum for Wool-Grease; and do hereby declare that the following is a full, clear, and exact description thereof.

The nature of my invention consists in preparing petroleum in such a manner that it shall be fit to use as a wool-grease, and not stain even the finest fabric.

In order to enable others skilled in the art to which my invention appertains, to make and use, I will now proceed to describe the process by which the petroleum is so prepared.

In making an oil for greasing wool, I take amber crude oil, (although the black can also be used,) and subject it to the direct action of steam, or superheated steam, in a still, or retort, so constructed, that at a certain heat, the light and heavy portions of the oil may be separated.

This can be done either by vaporizing the light oils, and letting them pass off, in the shape of naphtha or benzine, into a condenser, and leave the heavy portion in the retort, or allow, when sufficiently reduced, the heavy portion of the petroleum to be discharged, in the shape of a heavy, pale or amber oil, or grease, which is admirably adapted for the purposes named.

By the direct action of the steam, I prevent any tarring or coloring of the grease, and thereby make an oil that will not color or stain, and can be easily removed by washing. The steam also removes any acid or earthy matter naturally in the oil.

The advantages which a grease, or oil, made in this

manner, of petroleum, possesses, are manifold, but the most important are—

It will not stain the finest fabric, and can be washed or scoured out, and leave no trace; it spreads very easily, permeating all portions quickly and perfectly; it will not gum or stick, but separates the fibres, so that they are not broken in carding; it is inodorous, and costs much less than any oil or grease heretofore used for that purpose.

I am aware that petroleum-oil has heretofore been used for greasing wool, as shown in the patent of B. H. Lightfoot, of January 24, 1865, who uses a vaporized oil; but my oil is superior to his in this, that it is treated by the direct action of steam, is not vaporized, and forms an oil without grit or foreign substances, and without coloring the oil.

Having thus fully described my invention,

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

1. The within-described process for preparing petroleum, so as to be adapted as a wool-grease, substantially as set forth.

2. Preparing petroleum so that it can be used as a wool-grease, substantially as herein set forth.

3. An oil, or grease, made of petroleum, for the purpose of greasing wool, substantially as herein set forth.

4. The within-described petroleum as a wool-grease, when prepared substantially as herein set forth.

In testimony that I claim the foregoing, I have hereunto set my hand, this day of , 186 .

Witnesses:

G. E. PALMER,
J. R. LOCKHART.

SAM'L GIBBONS.