

UNITED STATES PATENT OFFICE.

COLUMBUS E. THOMPSON, OF BALTIMORE, MARYLAND.

LUBRICATING COMPOUND.

SPECIFICATION forming part of Letters Patent No. 335,546, dated February 2, 1886.

Application filed October 28, 1885. Serial No. 181,186. (No specimens.)

To all whom it may concern:

Be it known that I, COLUMBUS E. THOMPSON, a citizen of the United States, residing at Baltimore, in the State of Maryland, have invented certain new and useful Improvements in Lubricating Compounds; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The object of my invention is to form a compound that will act as a lubricator, and also prevent frictional heating and abrading of car-journals and machinery, and also to cool heated journals and bearings.

My compound consists of beef-tallow, castor-oil, and plumbago or graphite, combined in substantially the proportions hereinafter described and claimed, whereby my object is accomplished.

The manner of preparing my compound is as follows: Take about thirteen hundred and sixty (1,360) pounds of beef-tallow and place in kettle heated by steam-radiators and melt thoroughly. Now, add about three hundred and seventy-two (372) pounds of castor-oil, which should be mixed thoroughly with the tallow, a paddle being used for that purpose. While the tallow and castor-oil are in a heated and limpid state it is run by means of an open metallic trough to a movable shallow and open tank containing graphite—say one hundred and fifty pounds to the above-noted quantities of castor-oil and tallow—and mix the three substances in a complete and thorough manner by means of a wooden or metallic hoe until the substances become a fixed conglomerate mass, which is then placed in barrels ready for shipment and use. The quantity of tallow and castor-oil used may be varied to suit the temperature of the place where the lubricant is

used. In cold places or cold weather more castor-oil should be used. If in very hot places or hot weather, less castor-oil may be used; or the tallow may be varied in the same way. If desired, "castorine" may be used instead of castor-oil, or both castorine and castor-oil may be used. When used, the plumbago adheres to the surface of the metal, fills up the pores of the latter, and forms a perfectly-smooth surface, between which and the journal the compound acts as a film, and preventing them from coming together sufficiently to generate frictional heat, and consequently lose motive force, and cause wear, care, delays, and other annoyances.

I am aware that a lubricating compound having the following-named ingredients—viz., shale, plumbago, castor-oil, and lard combined together—is old. My compound differs from that, in that I dispense with the shale and substitute tallow for the lard. By using tallow I am able to make a compound of any desired consistency, which can be varied to suit the different seasons, whereas, if lard be used, particularly in warm weather, it becomes more or less fluid from the heat, especially when mixed with castor-oil. Tallow, however, does not become fluid under ordinary changes of the weather, and therefore accomplishes my object.

What I claim as new is—

As a lubricant, the combination of tallow, castor-oil, and plumbago or graphite, in substantially the proportions herein named.

In testimony whereof I affix my signature in presence of two witnesses.

COLUMBUS E. THOMPSON.

Witnesses:

HENRY BERSCH,
WM. H. BAYZAND.