

UNITED STATES PATENT OFFICE

HENRY V. P. DRAPER, OF HANNIBAL, MISSOURI, ASSIGNOR OF ONE-HALF
HIS RIGHT TO PETER B. GROAT, OF SAME PLACE.

IMPROVEMENT IN LUBRICATING COMPOUNDS.

Specification forming part of Letters Patent No. **171,509**, dated December 28, 1875; application filed
August 28, 1875.

To all whom it may concern:

Be it known that I, HENRY V. P. DRAPER, a resident of Hannibal, Marion county, Missouri, have invented a new and useful Improvement in Lubricating Compounds, of which the following is a full, clear, and exact description:

My aim is to provide a cheap lubricant that is free from acid and grit, which, in use, does not gum or leave any residuum, and which can endure a high degree of heat.

To prepare the lubricant, take petroleum in any of its commercial forms, or of any degree of purification, and to it add a saturated solution of lime-water. The lime-water is poured into the oil gradually, meanwhile stirring constantly, and until the lime solution is thoroughly incorporated in the oil. Add the lime-water until the mixture begins to thicken or becomes soapy. The stirring is kept up until the color of the mixture becomes a dark brown. Continued stirring changes it to a dark drab, and then to a light drab. The compound is fit for use as a lubricant when it is of a dark brown color. It is improved by stirring it until the lighter shades appear.

The lime-water is valuable in neutralizing deleterious ingredients found in petroleum. It also renders the lubricant incombustible,

and prevents it from gumming. The precise amount of lime-water to use cannot in advance be named, as different carbon oils take up different quantities of lime-water. If, from standing, the compound becomes too thick, it may be thinned by adding more of the petroleum.

I am aware that, for the purpose of improving the petroleum product in respect to its illuminating qualities, acid has been added thereto, and afterward dry lime. Such a combination, even if new with me, would not answer my present purpose. It is gritty, it decomposes in use, and it leaves an undesirable residuum. I therefore disclaim it; but

Having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The herein-described lubricant, consisting of petroleum and lime-water combined, substantially as described.

2. The herein-described process of manufacturing a lubricating compound by adding lime-water to petroleum, substantially as and for the purposes set forth.

H. V. P. DRAPER.

Witnesses:

SAML. S. BOYD,
CHAS. D. MOODY.