

UNITED STATES PATENT OFFICE.

GEORGE W. GLADDEN, OF CINCINNATI, OHIO.

IMPROVEMENT IN LUBRICATING-OILS.

Specification forming part of Letters Patent No. 132,759, dated November 5, 1872.

To all whom it may concern:

Be it known that I, GEORGE W. GLADDEN, of the city of Cincinnati, in the county of Hamilton and State of Ohio, have invented a certain new and useful Lubricating-Oil, of which the following is a specification:

The nature of my invention consists in a compound of residuum formed from the distillation of petroleum-oil, Carolina tar, and petroleum, or any liquid fatty substance for producing a cheap and durable lubricating-oil that will not gum in using.

The function of this residuum is to give body and consistency to the compound. The Carolina tar contains an acid, and separates all granulous substances which are injurious to the lubricating qualities of the oil. The introduction of petroleum-oil is to reduce the compound to a proper gravity.

To prepare the oil take the following relative proportion of the above ingredients, the quantity of each being proportionately increased or diminished, according to the aggregate quantity of the compound desired: To about sixteen hundred gallons of the residuum I add about one hundred and fifty gallons of Carolina tar, and boil them together in

a tank with steam heat for about six hours; then turn off the heat and let it settle for six hours; then draw it off into another tank and add a sufficient quantity of petroleum or other liquid oils to reduce the mixture to a proper gravity for lubricating purposes.

The proportion of Carolina tar to the above quantity of residuum may vary twenty gallons either way; but the relative quantities stated are found to best answer the purposes of manufacture.

I do not claim to be the first to have produced a lubricating-oil by the admixture of pine-tar with a hydrocarbon, as I am aware that such a compound has been described, in general terms, in a patent granted to Joseph M. Lippincott, September 4, 1866; but

What I claim is—

A lubricating-oil composed of the residuum of petroleum oil, Carolina tar, and petroleum, when compounded in the proportions above stated.

G. W. GLADDEN.

Witnesses:

P. M. SHUEY,
JEREMIAH TWOHIG.