

UNITED STATES PATENT OFFICE.

GEORGE P. FRENCH, OF ROCHESTER, NEW YORK.

LUBRICATING COMPOUND.

SPECIFICATION forming part of Letters Patent No. 324,018, dated August 11, 1885.

Application filed December 14, 1883. Renewed January 15, 1885. (No specimens.)

To all whom it may concern:

Be it known that I, GEORGE P. FRENCH, of Rochester, Monroe county, New York, have invented a certain new and useful Improvement in Lubricating Compounds; and I do hereby declare that the following is a full, clear, and exact description of the same.

My improvement relates to a lubricating compound for machinery, in which the basis of the oil is petroleum.

The invention consists of a compound composed of the following materials, in substantially the proportions named: petroleum, (crude,) one gallon; sal-soda, two ounces; potash, two ounces; borax, one-quarter ounce; cream of tartar, one-eighth ounce; paraffine-wax, two ounces; bay or green wax, two ounces; lard, sperm, or other unctuous oil, two ounces; plumbago, two ounces.

Dissolve the potash, borax, and cream of tartar in enough boiling water to produce a liquid. Then add the paraffine and bay or green wax. Boil slowly, agitate, and add the sal-soda. This makes a union of the parts. Allow the material to cool. Then add the petroleum and oil, at the same time stirring the mass. Then add the plumbago, continuing the agitation till the parts are thoroughly incorporated, after which allow the compound to stand for three days. The petroleum forms the great body of the oil. The paraffine and

bay or green wax give it the necessary substance and body. The potash adds the necessary alkali. The cream of tartar purifies, and the soda and borax produce the desired union of the parts. The plumbago adds to the lubricating qualities. This oil is simple, cheap, and very effective for all ordinary lubricating purposes.

The proportions above named may be modified according to the necessities of the case. For instance, in summer a heavier oil is required than in winter, and for heavy machinery a heavier oil is required than for light machinery. The proportions may be varied more or less to meet these conditions. This oil is adapted to railroad-journals as well as all kinds of machinery.

Having described my invention, I claim—

The lubricating compound herein described, consisting of petroleum, sal-soda, potash, borax, cream of tartar, paraffine-wax, bay or green wax, unctuous oil, and plumbago, substantially in the proportions specified.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

GEORGE P. FRENCH.

Witnesses:

R. F. OSGOOD,
P. A. COSTICH.