

UNITED STATES PATENT OFFICE.

HENRY GROGAN, OF FLATBUSH, NEW YORK.

IMPROVEMENT IN LUBRICATING COMPOUNDS.

Specification forming part of Letters Patent No. **106,053**, dated August 2, 1870.

To all whom it may concern:

Be it known that I, HENRY GROGAN, of Flatbush, in the county of Kings and State of New York, have invented a new and Improved Lubricating Compound; and I do hereby declare the following to be a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same.

This invention relates to a compound of tallow, petroleum, caustic soda, and animal hair, which ingredients are mixed together to a thick pasty mass, in such a manner that on applying the compound to a journal, the hair will prevent the grease from heating, and as said hairs are drawn out endwise by the traction of the journal they will, by their capillary attraction, carry a sufficient supply of the lubricating material to the journal to keep the same in order for a long time without requiring any attention.

In preparing my compound, I take the above-named ingredients in about the following proportion: tallow, ten parts; petroleum, (by preference the heavy oil,) three parts; caustic soda, one part. After these ingredients have been thoroughly mixed I add thereto a quan-

tity of animal hair, more or less, according to the journals for which the lubricating compound is to be used.

My compound forms a thick pasty mass, and if it is applied to a journal the hairs mixed with it are immediately drawn out, so that the same will act in the capacity of small tubes, conducting the lubricating material to the journal; and, furthermore, the hair is not liable to heat or to enter into a combustible combination with the fat-like cotton-waste, and I am enabled to fill up the lubricating-compartment of an axle-box, for instance, and the journal will run for a long time without requiring the least attention, and without wasting any of the lubricating material.

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

A lubricating compound made as herein described.

This specification signed by me this 9th day of July, 1870.

HENRY GROGAN.

Witnesses:

W. HAUFF,

E. F. KASTENHUBER.