

UNITED STATES PATENT OFFICE.

HENRY R. HUTCHINSON, OF EMPIRE IRON WORKS, KENTUCKY.

IMPROVEMENT IN LUBRICATING COMPOUNDS.

Specification forming part of Letters Patent No. 134,890, dated January 14, 1873.

To all whom it may concern:

Be it known that I, HENRY R. HUTCHINSON, of Empire Iron Works, in the county of Trigg and State of Kentucky, have invented a new and useful Improvement in Lubricating Compound, of which the following is a specification:

The object of this invention is to furnish a compound for lubricating car-axles and similar frictional surfaces, which shall prevent the friction and heating of axles and boxes, and be lasting and durable when applied; and it consists in a compound formed of the ingredients and combined in the manner hereinafter described:

In carrying out my invention I take, in the first place, say one hundred pounds of tallow or other animal fat, or mineral oil, and melt or reduce the same to a liquid state, in a suitable vessel; and then, by means of an iron bar heated to redness, I set the melted tallow, fat, or oil on fire, and burn the same until the more volatile or light portion has been consumed and all watery particles vaporized and expelled, and the melted tallow or oil is reduced to the required consistency. It is now allowed to cool until it becomes semi-fluid, when two pounds of pulverized sulphur, two

pounds of pulverized plumbago, and two pounds (more or less) of pulverized animal charcoal, and five pounds hydrated lime are added. The composition is now thoroughly mixed by grinding in a paint-mill, or by subjecting it to some similar process, when it is ready for use.

By grinding, as above, the ingredients are thoroughly incorporated with each other; and when applied to a heated axle friction is at once prevented, the heat is expelled, and the axle is soon reduced to its proper and normal condition.

I do not confine myself to the precise proportions named, as variations may be made therein without departing from my invention.

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

A lubricating compound composed of the above-mentioned ingredients, combined and prepared substantially in the manner described.

HENRY R. HUTCHINSON.

Witnesses:

B. C. BULLARD,
DAN B. CASSIDY.