

# UNITED STATES PATENT OFFICE.

MARTEN ANDERSSON, OF ELKHORN STATION, NEBRASKA.

## IMPROVEMENT IN AXLE-GREASE.

Specification forming part of Letters Patent No. **184,492**, dated November 21, 1876; application filed May 20, 1876.

*To all whom it may concern:*

Be it known that I, MARTEN ANDERSSON, of Elkhorn Station, in Douglas county, and State of Nebraska, have invented a new and useful Compound for Axle-Grease, which is fully described in the following specification.

This invention relates to that class of compounds used to lubricate railroad-car wheel-axles, to prevent friction and consequent fire in boxes.

To prepare the axle-grease, take a quantity of soap, of any kind, and dissolve it in hot water—say, take four and one-half pounds of the one to one-half gallon of the other—and, when the mixture is at the boiling-point, slowly stir in one-half pound of sulphur; then add thereto, in the same manner, three pounds of coal-dust, after which stir and let boil un-

til the composition is of a consistency little thicker than tar; then run it off into molds the size and shape desired, and let cool and harden, when it is ready for use.

This axle-grease is to be used to fill in the boxes and lubricate the axles of heavy rolling-stock, such as railroad-cars, engines, &c., and when used for that purpose will prevent any fire or heating of the axles or boxes, &c.

I claim—

The compound of soap, sulphur, coal-dust, and water, combined substantially as described, and for the purposes set forth.

MARTEN ANDERSSON.

In presence of—

CHARLES J. GREENE,  
J. P. MANNING.