

Patented May 24, 1927.

1,630,101

UNITED STATES PATENT OFFICE.

ROBERT E. WILKIN, OF WHITING, INDIANA, ASSIGNOR TO STANDARD OIL COMPANY,
OF WHITING, INDIANA, A CORPORATION OF INDIANA.

RUSTPROOFING OIL.

No Drawing.

Application filed March 13, 1925. Serial No. 15,357.

I have found that a highly effective rust preventing or "slushing" oil may be produced by the addition to a hydrocarbon oil heavier than gas oil of upwards of 3% of a soap of an oil-soluble sulfonic acid resulting from the treatment of petroleum oils with strong sulfuric acid (66° Baumé fuming acid, for example). Thus, by the addition to a light hydrocarbon oil, such as straw oil, of 5% of such soaps (preferably the soda soap), I have prepared an oil which, in an exceedingly thin film on an iron or steel surface, shows no sign of rust after more than 10 days immersion in water, the water being changed daily. I have also prepared oil with even better characteristics from a heavier lubricating oil (700 sec. Saybolt viscosity at 100° F.) by the addition of 10% of such soap. From 3 to 35% of the soap may be employed. The oil must be substantially water-free.

I claim:

1. The method of protecting ferrous metal surfaces against rust and corrosion which consists in applying to the surface thereof a thin film of a hydrocarbon oil, heavier than gas oil, containing upwards of 3% of soaps of oil soluble sulfonic acids derived from the treatment of petroleum oils with strong sulfonic acid.

2. The method of protecting ferrous metal surfaces from rust and corrosion which comprises applying to such surfaces a film of a hydrocarbon oil, heavier than gas oil, containing 3 to 35% of soaps of oil soluble sulfonic acids derived from the treatment of petroleum oils with strong sulfuric acid.

ROBERT E. WILKIN.

CERTIFICATE OF CORRECTION.

Patent No. 1,630,101.

Granted May 24, 1927, to

ROBERT E. WILKIN.

It is hereby certified that error appears in the printed specification of the above numbered patent requiring correction as follows: Line 30, claim 1, for the word "sulfonic" read "sulfuric"; and that the said Letters Patent should be read with this correction therein that the same may conform to the record of the case in the Patent Office.

Signed and sealed this 13th day of May, A. D. 1930.

(Seal)

M. J. Moore,
Acting Commissioner of Patents.

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