

UNITED STATES PATENT OFFICE.

HENRY V. P. DRAPER, OF HANNIBAL, ASSIGNOR OF SEVEN-SIXTEENTHS
TO FRANK HOLTZCLAW, OF ST. LOUIS, MISSOURI.

PETROLEUM ILLUMINATING-OIL.

SPECIFICATION forming part of Letters Patent No. 238,867, dated March 15, 1881.

Application filed December 8, 1879.

To all whom it may concern:

Be it known that I, HENRY V. P. DRAPER, of Hannibal, Missouri, have made a new and useful Improvement in Petroleum Illuminating-Oils, of which the following is a full, clear, and exact description.

The aim and effect of this improvement are to elevate the temperature at which petroleum illuminating-oils give off explosive vapors and to raise what is termed the "burning-point" of such oils.

It consists in combining chloroform with petroleum illuminating-oils. For instance, as follows: Take, say, five (5) pounds of chloroform and fifty (50) gallons of oil, and thoroughly mix the two ingredients. The mixing can be effected at any ordinary atmospheric temperature. The effect is to raise the temperature at which the oil gives off an explosive vapor and at which the oil burns in the

sense used by coal-oil inspectors in applying the fire-test to coal-oils. I have discovered that the effect varies according to the quantity of the chloroform and to the thoroughness of the mixing, the larger the proportion of chloroform used, up to the point of saturation, and the more intimately it is combined with the oil the higher the temperatures at which explosive vapors are evolved from the oil and at which the oil burns.

I claim—

The herein-described compound, consisting of petroleum illuminating-oil and chloroform, combined in the proportions substantially as specified.

H. V. P. DRAPER.

Witnesses:

CHAS. D. MOODY,
SAML. S. BOYD.