

Title (en)

METHOD AND DEVICE FOR ELECTRICALLY TESTING FUELS AND COMBUSTIBLES BY GENERATING A PLASMA

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ELEKTRISCHEN PRÜFUNG VON KRAFTSTOFFEN UND BRENNSTOFFEN UNTER EINES PLASMAS

Title (fr)

PROCEDE ET DISPOSITIF DE CONTROLE ELECTRIQUE DE CARBURANTS ET DE COMBUSTIBLES, PAR GENERATION D'UN PLASMA

Publication

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Application

EP 04804544 A 20041119

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Abstract (en)

[origin: WO2005057202A1] The invention relates to a method for testing liquid and gaseous fuels and combustibles in general and testing the erosivity of low-sulfur combustibles in particular. According to said method, a plasma is formed with the combustible or fuel, and the electrical behavior of the plasma is measured. The more electrical the plasma of an untreated charge of combustible or fuel behaves, the less risk-prone is the combustible or fuel regarding erosivity. The conductivity of the plasma can be increased or lowered by adding additives in order to obtain an unproblematic fuel or combustible. The measured values of the voltage peaks of the half-wave of an alternating voltage applied to the plasma of combustibles and fuels that are treated by means of additives must be lower or significantly greater than the measured values of a combustible or fuel which is unproblematic already in an untreated state, said half-wave being inverted by the plasma. Advantageously, the average maximum values of both half-waves are taken into account for assessing the erosivity of a combustible.

IPC 8 full level

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