

Title (en)

PROCESS AND APPARATUS FOR MEASURING AN ORGANIC SOLID SAMPLE BY GLOW DISCHARGE SPECTROMETRY

Title (de)

VERFAHREN UND VORRICHTUNG ZUR MESSUNG EINER ORGANISCHEN FESTSTOFFPROBE MITTELS
GLIMMENTLADUNGSSPEKTROMETRIE

Title (fr)

PROCÉDÉ ET APPAREIL DE MESURE D'UN ECHANTILLON SOLIDE ORGANIQUE PAR SPECTROMETRIE DE DÉCHARGE LUMINESCENTE

Publication

EP 3127140 A1 20170208 (FR)

Application

EP 15718972 A 20150327

Priority

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Abstract (en)

[origin: WO2015150677A1] The present invention relates to a system and a process for measuring, by glow discharge spectrometry, the elemental and/or molecular chemical composition of an organic solid sample (10). According to the invention: the sample (10) is positioned so as to seal a glow discharge plasma reactor (2), a gaseous mixture comprising at least one inert gas and gaseous oxygen is injected into the reactor (2), the concentration of gaseous oxygen being between 0.1% and 15% by weight of the gaseous mixture, an electric discharge of radiofrequency type is applied to the electrodes of the plasma reactor (2) in order to generate a glow discharge plasma, and the solid sample (10) is exposed to said plasma so as to etch an erosion crater in the solid sample (10); at least one signal representative of an ionized species of negative charge is selected and measured using a mass spectrometer (4).

IPC 8 full level

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Citation (search report)

See references of WO 2015150677A1

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