

Title (en)  
DETECTING LASER-INDUCED FLUORESCENCE EMISSIONS

Title (de)  
DETEKTION VON LASERINDUZIERTEN FLUORESZENZEMISSIONEN

Title (fr)  
DETECTION DES EMISSIONS DE FLUORESCENCE INDUITE PAR UN LASER

Publication  
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Application  
**EP 05807791 A 20050930**

Priority

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- FR 0452235 A 20041001

Abstract (en)  
[origin: WO2006037879A1] The invention concerns the field of tools for determining a sample chemical composition. More particularly, the invention concerns an improvement in detecting chemical elements in a sample by laser-induced fluorescence (LIF). The invention concerns a system for detecting a chemical element within a material comprising at least one laser emission for ionizing part of said material to generate fluorescence, at least one transmitting Bragg grating for filtering the wavelength corresponding to the deexcitation wavelength of said element and at least one photodiode for detecting the line corresponding to said filtering wavelength. The invention is characterized in that said at least one Bragg grating is mobile so as to vary said filtering wavelength.

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