

Title (en)

METHOD FOR ANALYSING A SOLID SAMPLE CONSTITUENTS, DEVICE FOR PREPARING A GAS MIXTURE, USE OF A LASER EMITTER IN SAID DEVICE, ANALYSIS METHOD USING THE DEVICE AND USE OF AN ICP OR AAS ANALYSER

Title (de)

ANALYSE-VERFAHREN FÜR DIE ZUSAMMENSETZUNG EINER FESTEN PROBE,GERÄT ZUR HERSTELLUNG EINER GAS-MISCHUNG,VERWENDUNG EINES LASER-EMITTERS HIERFÜR

Title (fr)

PROCEDE D'ANALYSE DES CONSTITUANTS D'UN ECHANTILLON SOLIDE, DISPOSITIF DE PREPARATION D'UN MELANGE GAZEUX, UTILISATION D'UN EMETTEUR LASER DANS CE DISPOSITIF, PROCEDE D'ANALYSE UTILISANT LE DISPOSITIF ET UTILISATION D'UN ANALYSEUR ICP OU AAS

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Application

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Abstract (en)

[origin: WO9855848A1] The sample (1) is fixed on a table (3) surface and covered with a bell-shaped lid (4). the carrier gas controller (8) regulates the argon flow rate at a constant pressure slightly higher than atmospheric pressure in the conduits (5 and 6) passing it through the nozzle (13) and the chamber (14). The laser emitter (9) sends pulses into the chamber (14). The latter are focused by the lens (11) and generate brief plasma which vaporises the sample constituents and supply the analyser (15) with a gas mixture in the form of an aerosol having a constant composition, with sufficiently small particles of homogeneous dimensions, specially adapted to be used by the analyser (15) if the latter is an ICP or an AAS.

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