

Title (en)

METHOD AND APPARATUS FOR USE OF POLARIZED LIGHT VECTORS IN EVALUATING CONSTITUENT COMPOUNDS IN A SPECIMEN

Title (de)

VERFAHREN UND VORRICHTUNG ZUR VERWENDUNG DER VEKTOREN VON POLARISIERTEM LICHT ZUR BESTIMMUNG DER IN EINER PROBE ENTHALTENEN BESTANDTEILE

Title (fr)

PROCEDE ET APPAREIL PERMETTANT D'UTILISER DES VECTEURS DE LUMIERE POLARISEE POUR L'EVALUATION DE COMPOSES CONTENUS DANS UN ECHANTILLON

Publication

**EP 0721575 A4 19960215 (EN)**

Application

**EP 93920479 A 19930903**

Priority

- US 9308319 W 19930903
- US 94007592 A 19920903

Abstract (en)

[origin: WO9405984A1] A device and method for determining the identity and concentration of constituent compounds of a test specimen (14) based on polarization effect when the specimen (14) is subjected to randomly or partially polarized light (12). The polarization effect will cause the intensity of light passing through the specimen (14) at one angle of polarization to be different than the intensity of light exiting the specimen (14) at a second angle at a specific wavelength and will result in an elliptically polarized light. The intensity of light exiting the specimen (14) in various planes of polarization is measured by irradiating the specimen (14) with randomly or partially polarized light and then polarizing the light reflected from or passing through the specimen (14) in different planes of polarization angles and measuring (24) the intensity of light in each of the these polarization planes at one or more wavelengths of light (Fig. 3).

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CPC (source: EP)

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- [A] DE 3117687 A1 19820401 - KUEPPER ECKHARD DR RER NAT
- [A] DE 2513937 A1 19761007 - SCHMIDT & HAENSCH FRANZ
- See references of WO 9405984A1

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