

Title (en)

USE OF MARKING AGENTS HAVING NARROW BANDS

Title (de)

VERWENDUNG DER MARKIERSTOFFE MIT SCHMALEN BANDEN

Title (fr)

UTILISATION DE SUBSTANCES DE MARQUAGE À BANDES ÉTROITES

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Application

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Abstract (en)

[origin: WO2011045294A1] The invention relates to a method for marking objects, wherein the object to be marked is brought in contact with at least one marking agent and the absorption spectrum of the at least one marking agent in contact with the object has at least one narrow band having a half width value of -1, which is in the UV and/or visible and/or IR wavelength range of the electromagnetic spectrum. The marking agents are selected from the group consisting of organic dyes, inorganic chromophores or pigments. The object to be marked contains paper, metal, glass, ceramic material, or plastic material. The invention further relates to a method for detecting markings on objects, comprising the steps of marking the object, irradiating the object with electromagnetic radiation comprising a wavelength range that at least partially overlaps the at least one narrow band of the at least one marking agent, optionally carrying out a change in the position of the at least one narrow band, and determining the absorption of the object, comprising a wavelength range that at least partially overlaps the at least one narrow band of the at least one marking agent.

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