Title (en)
  METHOD AND APPARATUS FOR MARKING A PRODUCT

Title (de)
  VERFAHREN UND VORRICHTUNG ZUR MARKIERUNG EINES PRODUKTS

Title (fr)
  PROCÉDÉ ET APPAREIL DE MARQUAGE D'UN PRODUIT

Publication
  EP 2739785 A4 20150225 (EN)

Application
  EP 12820375 A 20120803

Priority
  • FI 20115781 A 20110803
  • FI 2012050765 W 20120803

Abstract (en)
  [origin: WO2013017738A1] A method for producing markings (MRK1, MRK2) on a web (WEB1) comprises forming a first altered portion (DOT1)
  of the web (WEB1) by directing a laser beam (LB2) to the web (WEB1) so as to locally reduce the 5 fluorescence yield of the web (WEB1) at the
  location of the first altered portion (DOT1), wherein the web (WEB1) comprises cellulose fibers and a fluorescent substance, and wherein the visual
  contrast between the first altered portion (DOT1) and a reference portion (REF1) is smaller than or equal to 5% when the web (WEB1) is illuminated
  by substantially white 10 visible light (VIS0), which does not contain ultraviolet light (UV0).

IPC 8 full level
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CPC (source: EP FI)
  B41M 3/142 (2013.01 - FI); **B41M 5/26** (2013.01 - EP); **B41M 5/284** (2013.01 - EP); **B42D 25/387** (2014.10 - EP FI);
  B42D 25/41 (2014.10 - EP FI); **D21H 21/40** (2013.01 - EP FI); **D21H 21/48** (2013.01 - EP FI); **G07D 7/1205** (2017.04 - EP);
  B41M 3/14 (2013.01 - EP); B41M 3/144 (2013.01 - EP)

Citation (search report)
  • No further relevant documents disclosed
  • See references of WO 2013017738A1

Cited by
  EP3875285A1; CN112512812A; EP3829872A4; WO2020027827A1; US11281946B2; US11410005B2

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