Title (en)

METHOD FOR DETECTING A FLUID PERMEATING THROUGH A LAYER

Title (de)

DETEKTIONSVERFAHREN FÜR EINE DURCH EINE SCHICHT SICKERNDE FLÜSSIGKEIT

Title (fr)

PROCÉDÉ DE DÉTECTION D'UN FLUIDE AYANT TRAVERSÉ UNE COUCHE PAR PERMÉATION

Publication

EP 2622320 A1 20130807 (EN)

Application

EP 11764163 A 20110929

Priority

- EP 10185828 A 20101001
- EP 2011066957 W 20110929
- EP 11764163 A 20110929

Abstract (en)

[origin: WO2012041945A1] The invention pertains to a method for detecting and measuring the permeation of a fluid through a layer having a first surface (S1) and a second surface (S2), wherein said fluid is contacted with said first surface (S1) and wherein a coating composition comprising a reactive dye is applied to said second surface (S2) to yield a reactive dye coating onto said surface (S2), wherein said reactive dye coating undergoes a colour change when contacted with said fluid, said method comprising: - obtaining an image of at least a portion of said second surface (S2); - applying RGB colour model to said image to determine the red (R), green (G) and blue (B) coordinates of at least one point of said image; - comparing RGB coordinates of said point to the RGB coordinates of a reference colour; and - correlating said comparison to the concentration of permeating fluid on the surface (S2).

IPC 8 full level

G01N 15/08 (2006.01); **G01N 21/78** (2006.01); **G01N 31/22** (2006.01)

CPC (source: EP)

G01N 15/082 (2013.01); **G01N 31/22** (2013.01); G01N 2015/0846 (2013.01); G01N 2015/086 (2013.01)

Citation (search report)

See references of WO 2012041945A1

Cited by

CN112740014A

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2012041945 A1 20120405; EP 2622320 A1 20130807; TW 201229483 A 20120716

DOCDB simple family (application)

EP 2011066957 W 20110929; EP 11764163 A 20110929; TW 100135586 A 20110930