

Title (en)

SENSOR HAVING A VARIABLE LIGHT BEAM FOR OPTICALLY DETECTING MARKS ON A MOVING MATERIAL WEB

Title (de)

SENSOR MIT VERÄNDERBAREM LICHTSTRAHL ZUR OPTISCHEN ERFASSUNG VON MARKIERUNGEN AUF EINER LAUFENDEN MATERIALBAHN

Title (fr)

CAPTEUR DE DÉTECTION OPTIQUE DE MARQUAGES SUR UNE BANDE CONTINUE DE MATÉRIAU EN MOUVEMENT AVEC FAISCEAU LUMINEUX VARIABLE

Publication

EP 3043998 A2 20160720 (DE)

Application

EP 14762038 A 20140912

Priority

- DE 102013015036 A 20130912
- EP 2014069542 W 20140912

Abstract (en)

[origin: WO2015036565A2] The invention relates to a sensor for optically detecting marks on a moving material web. The object of the invention is to produce a sensor which can be reliably used for all possible combinations of printing inks and backgrounds, without compromising the achievable accuracy. To achieve this the sensor comprises: a light source for generating a light spot on the moving material web, the intensity of the light spot being controllable by means of a driver; a light receiver for receiving the light reflected back by the light spot; a signal processing unit for evaluating the output signal of the light receiver; and a switching unit for switching between a teach mode, in which the intensity of the light spot is changed by the driver and a detection mode, in which the intensity of the light spot is maintained at a constant level by the driver.

IPC 8 full level

B41F 33/00 (2006.01); **B41F 33/02** (2006.01); **G01N 21/47** (2006.01); **G01V 8/14** (2006.01); **G06K 7/14** (2006.01)

CPC (source: EP)

B41F 33/0081 (2013.01); **B41F 33/02** (2013.01); **B41P 2213/90** (2013.01)

Citation (search report)

See references of WO 2015036565A2

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

DE 102013015036 A1 20150312; CN 105682928 A 20160615; CN 105682928 B 20200421; EP 3043998 A2 20160720; WO 2015036565 A2 20150319; WO 2015036565 A3 20150611

DOCDB simple family (application)

DE 102013015036 A 20130912; CN 201480050135 A 20140912; EP 14762038 A 20140912; EP 2014069542 W 20140912