Title (en)

Device for adjusting the printing image in a flexographic printing machine

Title (de)

Vorrichtung zur Einstellung des Druckbildes in einer Flexodruckmaschine

Title (fr)

Dispositif de repérage de l'image d'impression dans une machine d'impression flexographique

Publication

EP 1249346 A1 20021016 (DE)

Application

EP 02005727 A 20020313

Priority

- DE 10115134 A 20010327
- DE 10145957 A 20010918

Abstract (en)

The device sets relative positions of rollers involved in ink transfer. At least some of the rollers can be driven by their own drives in common and independently so rollers involved in the printing process can be added together. At least one camera acquiring the print image on the print medium feeds successively acquired images to a control/regulating unit that produces signals for participating rollers until the image is formed without loss of area. The device sets the relative positions of the rollers (3,7,8) involved in ink transfer, at least some of which can be driven by their own drives (M1-M4) both in common as well as mutually independently so that the rollers involved in the printing process can be added together. At least one camera acquiring the print image on the print medium (17) feeds successively acquired images to an electronic control and regulating unit (13) that produces signals for participating rollers until the image is formed without loss of area. AN Independent claim is also included for the following:- a method of setting a print image in a rotary print machine.

Abstract (de)

Es wird eine Vorrichtung und ein Verfahren zur Einstellung des Druckbildes einer Rotationsdruckmaschine durch die Einstellung der Relativposition der an der Farbübertragung beteiligten Walzen (3, 7, 8) vorgestellt. Hierbei ist zumindest ein Teil dieser Walzen (7, 8) durch eigene Stellantriebe (M1 bis M4) sowohl gemeinsam als auch unabhängig voneinander gegeneinander verfahrbar, so dass die am Druckprozess beteiligten Walzen (3, 7, 8) gegeneinander anstellbar sind. Darüber hinaus ist mindestens eine das Druckbild (10) auf der Bedruckstoffbahn (17) erfassende Kamera (K) vorgesehen, die aufeinanderfolgend aufgenommene Bilder einer elektronischen Steuerund Regeleinheit (13) zuführt, Diese Steuer- und Regeleinheit (13) erzeugt solange für die Stellantriebe zumindest eines Teils der am Druck- und Einfärbeprozess beteiligten Walzen (3, 7, 8) Signale, bis oder wie das Druckbild ohne Flächenverlust abgebildet wird. <IMAGE>

IPC 1-7

B41F 33/00; B41F 13/30; B41F 5/24

IPC 8 full level

B41F 5/24 (2006.01); **B41F 13/30** (2006.01); **B41F 31/02** (2006.01); **B41F 31/30** (2006.01); **B41F 33/00** (2006.01); **B41F 33/14** (2006.01); **G06T 7/00** (2006.01)

CPC (source: EP US)

B41F 5/24 (2013.01 - EP US); **B41F 13/20** (2013.01 - EP US); **B41F 13/30** (2013.01 - EP US); **B41F 33/0036** (2013.01 - EP US); **B41F 33/0045** (2013.01 - EP US); B41P 2200/12 (2013.01 - EP US); B41P 2200/30 (2013.01 - EP US); B41P 2213/734 (2013.01 - EP US); Y10S 101/45 (2013.01 - EP US)

Citation (applicant)

- DE 2941521 A1 19810423 - WINDMOELLER & HOELSCHER [DE]
- DE 3742129 A1 19890622 - WINDMOELLER & HOELSCHER [DE]
- DE 4001735 A1 19910725 - WINDMOELLER & HOELSCHER [DE]

Citation (search report)

- [PA] EP 1184177 A2 20020306 - ROLAND MAN DRUCKMASCH [DE]
- [A] DE 4121749 A1 19930107 - WINDMOELLER & HOELSCHER [DE]

Cited by

EP2127876A1; DE102006060464A1; EP1916102A1; EP1839854A1; EP2384892A1; WO2011138466A1; DE102010000907B4; CN103101290A; DE102011084544B4; DE102006060465A1; DE102006060465B4; DE102007025910B4; DE102007049192B4; ES2395183A1; DE102013010764A1; DE102006060464B4; DE102006060464C5; EP2759407A3; US7100509B2; EP2295248A1; WO2004065127A3; WO03066332A3; WO2008049501A3; WO2013024186A1; WO2008049500A3; WO2013068239A2; DE102011086047A1; DE102007049192A1; DE102007025910A1; US7444935B2; DE102008025114A1; DE202007004713U1; EP2581226A1; DE102011084544A1; EP2298552A1; DE102010042033A1; WO2012045579A1; US8534194B2; DE202007004717U1; WO2011086044A1; DE102010000907A1; WO2012089496A1; US9259914B2; WO2010142405A2; DE102009025053A1; US8578850B2; EP2759407A2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

EP 1249346 A1 20021016; **EP 1249346 B1 20051012**; **EP 1249346 B2 20130306**; AT E306395 T1 20051015; CA 2379013 A1 20020927; CA 2379013 C 20100525; DE 10145957 A1 20021017; DE 10145957 B4 20140925; DE 20122584 U1 20060727; DE 50204501 D1 20060223; EP 1666252 A2 20060607; EP 1666252 A3 20091021; EP 1666252 B1 20120613; ES 2232327 T1 20050601; ES 2232327 T3 20060316; ES 2232327 T5 20130417; ES 2386548 T3 20120822; JP 2002355951 A 20021210; JP 2009179067 A 20090813; JP 4363819 B2 20091111; US 2003005840 A1 20030109; US 6634297 B2 20031021

DOCDB simple family (application)

EP 02005727 A 20020313; AT 02005727 T 20020313; CA 2379013 A 20020327; DE 10145957 A 20010918; DE 20122584 U 20010918; DE 50204501 T 20020313; EP 05022128 A 20020313; ES 02005727 T 20020313; ES 05022128 T 20020313; JP 2002088178 A 20020327; JP 2009122411 A 20090520; US 10680802 A 20020327