

Title (en)

Method for reducing vibrations in a printing machine

Title (de)

Verfahren zur Reduzierung von Vibrationen in einer Druckmaschine

Title (fr)

Procédé pour réduire les vibrations dans une machine d'impression

Publication

EP 1211068 A3 20031126 (DE)

Application

EP 01126459 A 20011109

Priority

- US 72799400 A 20001201
- US 94827401 A 20010906

Abstract (en)

[origin: EP1211068A2] Vibrations are reduced by determining the lateral position of the first contact roll (42) cooperating with a first plate cylinder (12), with respect to the second contact roll (52) cooperating with the second plate cylinder (22), and then the first plate cylinder is rotated relative to the second plate cylinder so that the lateral position of the first contact roll is changed relative to the second contact roll. The plate cylinders are recordably adjustable independently of each other, and the contact rolls oscillate sideways. Independent claims are also included for (a) a method for reducing vibrations in the same type of printing machine, where the desired lateral position for the first contact roll in relation to the second contact roll is determined independently of any printing machine vibrations, and the first plate cylinder is rotated relative to the second plate cylinder so that the desired lateral position for the first contact roll in relation to the second contact roll is achieved, and (b) a printing machine comprising at least one first contact roll which cooperates with a first plate cylinder, forms part of an inking station and moves sideways as the first plate cylinder rotates, a second plate cylinder adjustable relative to a recording device independently of the first plate cylinder, at least one second contact roll which cooperates with the second plate cylinder, forms part of another inking station or a moisturising station and moves sideways as the second plate cylinder rotates, at least one sensor (81, 82, 142, 144, 152, 154, 162, 172, 181, 182, 300) for determining the lateral position of the first contact roll and/or vibration of the printing machine or its frame, and a control device (80) for receiving signals from at least one sensor and rotating the first plate cylinder relative to the second plate cylinder, so that the phase of the first and second contact rolls is changed depending on the signals received.

IPC 1-7

B41F 13/08; **B41F 31/15**

IPC 8 full level

B41F 13/00 (2006.01); **B41F 13/08** (2006.01); **B41F 13/10** (2006.01); **B41F 13/12** (2006.01); **B41F 31/15** (2006.01); **B41F 33/00** (2006.01); **B41F 33/14** (2006.01)

CPC (source: EP)

B41F 13/085 (2013.01); **B41F 31/15** (2013.01); **B41P 2213/42** (2013.01)

Citation (search report)

- [A] US 5524538 A 19960611 - VOGEL MICHAEL [DE], et al
- [A] US 4332195 A 19820601 - MIZUMURA SHIZUO
- [A] PATENT ABSTRACTS OF JAPAN vol. 1999, no. 09 30 July 1999 (1999-07-30)
- [A] PATENT ABSTRACTS OF JAPAN vol. 1995, no. 05 30 June 1995 (1995-06-30)

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 1211068 A2 20020605; **EP 1211068 A3 20031126**; **EP 1211068 B1 20091230**; CN 1246147 C 20060322; CN 1359796 A 20020724; CZ 20013876 A3 20020717; DE 10154810 A1 20020704; HK 1048091 A1 20030321; HK 1048091 B 20060908; JP 2002205376 A 20020723; RU 2236946 C2 20040927

DOCDB simple family (application)

EP 01126459 A 20011109; CN 01134588 A 20011130; CZ 20013876 A 20011029; DE 10154810 A 20011108; HK 03100322 A 20030114; JP 2001363161 A 20011128; RU 2001132211 A 20011129