

Title (en)

Direct-to-plate lithographic printing method using automatic plate-coating and -cleaning

Title (de)

"Direct-to-plate" lithographisches Druckverfahren mit automatischer Platten-beschichtung und -reinigung

Title (fr)

Procédé d'impression lithographique dite "direct-to-plate", avec revêtement et nettoyage automatique des plaques d'impression

Publication

EP 1142706 A3 20011219 (EN)

Application

EP 00203968 A 20001114

Priority

- EP 00203968 A 20001114
- EP 00200178 A 20000118
- EP 00200177 A 20000118
- EP 00200176 A 20000118

Abstract (en)

[origin: EP1142706A2] A direct-to-plate method of lithographic printing is disclosed wherein a printing press is used that is coupled to a coating apparatus and to a cleaning apparatus; wherein the coating apparatus applies an image-recording layer on a substrate so as to obtain a printing plate, which is mechanically transferred to the printing press; and wherein, after the print job, the printing plate is mechanically transferred to the cleaning apparatus wherein the substrate is recycled, so that the recycled substrated can be reused in a next cycle of coating, printing and cleaning. The off-press coating and the off-press cleaning step provide a fully automated printing method wherein the press down-time is minimized. The method comprises also an off-press or an on-press exposure step. <IMAGE>

IPC 1-7

B41C 1/10; **B41N 3/00**

IPC 8 full level

C11D 3/18 (2006.01); **C11D 7/50** (2006.01); **C11D 11/00** (2006.01); **B41C 1/10** (2006.01); **B41N 3/00** (2006.01); **C11D 7/24** (2006.01); **C11D 7/26** (2006.01); **C11D 7/32** (2006.01)

CPC (source: EP)

C11D 3/18 (2013.01); **C11D 7/5022** (2013.01); **B41C 1/1025** (2013.01); **B41C 2210/08** (2013.01); **B41C 2210/24** (2013.01); **B41N 3/006** (2013.01); **C11D 7/24** (2013.01); **C11D 7/263** (2013.01); **C11D 7/3218** (2013.01); **C11D 7/3263** (2013.01); **C11D 7/3281** (2013.01); **C11D 2111/20** (2024.01)

Citation (search report)

- [XY] EP 0940252 A1 19990908 - AGFA GEVAERT NV [BE]
- [Y] US 5623877 A 19970429 - MUTH BERNHARD W W [DE]
- [Y] EP 0802457 A1 19971022 - AGFA GEVAERT NV [BE]
- [A] US 5870954 A 19990216 - LOVENSTEIN JAMES V [US], et al
- [A] US 5449474 A 19950912 - LUCAS JOSEPH A [US], et al

Cited by

EP1228871A1; EP1287986A4; DE10311514A1; DE10311514B4

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 1142706 A2 20011010; **EP 1142706 A3 20011219**; **EP 1142706 B1 20050907**

DOCDB simple family (application)

EP 00203968 A 20001114