

Title (en)
Digital ink dosing

Title (de)
Digitale Farbdosierung

Title (fr)
Dosification numérique d'encre

Publication
EP 1022137 B2 20110525 (DE)

Application
EP 99123241 A 19991126

Priority
DE 19859436 A 19981222

Abstract (en)
[origin: US6516721B1] An inking unit for a printing machine includes one or more distributor drums, ink transfer rollers, ink application rollers, an ink reservoir for printing ink and an ink metering device having at least one electrically controllable valve for metering the printing ink. In accordance with the invention, there are provided a high-pressure pumping device for supplying the ink metering device with printing ink at a predetermined high pressure from the ink reservoir, and a heating device for heating the printing ink to a predetermined temperature above room temperature. Moreover, the at least one valve of the ink metering device has a short reaction time and a flow rate with a low dependence upon viscosity. The invention also relates to a method for supplying printing ink to a printing machine.

IPC 8 full level
B41F 31/08 (2006.01); **B41J 2/01** (2006.01); **B41F 35/04** (2006.01)

CPC (source: EP US)
B41F 31/08 (2013.01 - EP US); **B41F 35/04** (2013.01 - EP US)

Citation (opposition)
Opponent :

- DE 155404 C
- DE 2951651 C2 19831020
- DE 1943939 U 19660811 - MASCHF AUGSBURG NUERNBERG AG [DE]
- EP 0350569 A2 19900117 - ROCKWELL INTERNATIONAL CORP [US]
- DE 19815179 C2 20000224 - HORNSCHUH MANFRED [DE]
- DE 68911220 T2 19940414 - ROCKWELL INTERNATIONAL CORP [US]

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
US 6516721 B1 20030211; AT E271469 T1 20040815; DE 19859436 A1 20000629; DE 19859436 B4 20091224; DE 59910008 D1 20040826; EP 1022137 A1 20000726; EP 1022137 B1 20040721; EP 1022137 B2 20110525; JP 2000185390 A 20000704; JP 4450915 B2 20100414

DOCDB simple family (application)
US 47062499 A 19991222; AT 99123241 T 19991126; DE 19859436 A 19981222; DE 59910008 T 19991126; EP 99123241 A 19991126; JP 36232099 A 19991221