

Title (en)
ROLLER

Title (de)
WALZE

Title (fr)
ROULEAU

Publication
EP 1042123 B1 20011017 (DE)

Application
EP 98966565 A 19981222

Priority
• DE 9803756 W 19981222
• DE 19757815 A 19971224

Abstract (en)
[origin: DE19757815C1] In a roller with several ink balls, a bearing is mounted between the ink balls.

IPC 1-7
B41F 31/30

IPC 8 full level
B41F 31/30 (2006.01)

CPC (source: EP US)
B41F 31/305 (2013.01 - EP US)

Cited by
DE10321009B3; EP1477313A1

Designated contracting state (EPC)
CH DE FR GB IT LI

DOCDB simple family (publication)
DE 19757815 C1 19990722; DE 59801819 D1 20011122; EP 1042123 A1 20001011; EP 1042123 B1 20011017; US 6349644 B1 20020226; WO 9933667 A1 19990708

DOCDB simple family (application)
DE 19757815 A 19971224; DE 59801819 T 19981222; DE 9803756 W 19981222; EP 98966565 A 19981222; US 58123700 A 20000801