

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