

Title (en)
Cooling cylinder

Title (de)
Kühlwalze

Title (fr)
Cylindre réfrigérant

Publication
EP 0943435 B1 20030205 (DE)

Application
EP 99102756 A 19990222

Priority
DE 19812149 A 19980320

Abstract (en)
[origin: EP0943435A1] A cooled roller has coolant introduced from one side and distributed inside the roller to flow out of the other side. The coolant is fed into a central distribution duct with outlet holes to feed the separate segments inside the roller. The size of the outlet holes increases away from the input side of the roller to ensure an even cooling effect on the inside side of the coolant flow. The return flow spacing also increase in size away from the input side to even out the coolant effect. The central distribution duct can be replaced by a tapering duct.

IPC 1-7
B41F 23/04; **F26B 13/18**

IPC 8 full level
B41F 23/04 (2006.01); **F26B 13/18** (2006.01)

CPC (source: EP US)
B41F 23/0479 (2013.01 - EP US); **F26B 13/183** (2013.01 - EP US)

Cited by
CN105644141A; EP1795347A3; DE10305917B4; DE10305316B4; DE102006027147B4; EP1795347A2; WO2007068878A1

Designated contracting state (EPC)
DE FR GB NL

DOCDB simple family (publication)
EP 0943435 A1 19990922; **EP 0943435 B1 20030205**; DE 19812149 A1 19990923; DE 59904202 D1 20030313; US 6220161 B1 20010424

DOCDB simple family (application)
EP 99102756 A 19990222; DE 19812149 A 19980320; DE 59904202 T 19990222; US 27361999 A 19990322