

Title (en)

PRINTING CYLINDER WITH A DEVICE FOR REDUCING TORSIONAL AND AXIAL VIBRATIONS CAUSED BY THE CYLINDER CANAL

Publication

EP 0210635 B1 19901128 (DE)

Application

EP 86110409 A 19860728

Priority

DE 3527711 A 19850802

Abstract (en)

[origin: US4739702A] Some conventional printing cylinders include therein a damping system having springs which receive oscillation forces transmitted from the cylinder wall, for example by cross bars, disks, or the like, to dampen oscillations occurring upon roll-off of an axial clamping groove formed in the cylinder against an engagement cylinder. To reduce not only bending and torsional oscillations, but also the effect of the impact shock when the groove rolls off against the engagement cylinder, impact positions are defined within the cylinder against which either the damping springs or elements coupled to the damping springs can engage the cylinder upon deflection thereof due to the impact shock so that the resulting elastic shock or impact is likewise transferred to the damping springs of the damping system. The damping system includes oscillation transferring rods, bars, or the like which may be embedded or at least in part contacted by elastic materials, such as foam or the like.

IPC 1-7

B41F 13/08

IPC 8 full level

B41F 13/08 (2006.01)

CPC (source: EP US)

B41F 13/085 (2013.01 - EP US); **B65H 2601/524** (2013.01 - EP US)

Cited by

EP0519301A1

Designated contracting state (EPC)

CH FR GB IT LI SE

DOCDB simple family (publication)

DE 3527711 C1 19860911; EP 0210635 A2 19870204; EP 0210635 A3 19880803; EP 0210635 B1 19901128; JP S6233645 A 19870213; US 4739702 A 19880426

DOCDB simple family (application)

DE 3527711 A 19850802; EP 86110409 A 19860728; JP 18024986 A 19860801; US 89303486 A 19860804