

## Title (en)

Cylinder of a printing unit with a rubber layer for use in offset, intaglio, flexographic or letterpress printing.

## Title (de)

Druckwerkszylinder mit Gummibelag für Hoch-, Flexo-, Tief- und Rollenoffset-Druck.

## Title (fr)

Cylindre d'unité d'impression comportant une couche de caoutchouc pour l'impression offset, flexographique, en creux, typographique.

## Publication

**EP 0317656 A1 19890531 (DE)**

## Application

**EP 87117263 A 19871124**

## Priority

**EP 87117263 A 19871124**

## Abstract (en)

To avoid slot impact or interference in cylinders of printing mechanisms, the upper layer of the rubber covering is removed at its ends so that the angle between the upper and lower layers is less than or equal to 90 DEG . The remaining ends of the covering are inserted into a tube capable of rotation and of being locked into position, which serves as a tensioning element incorporated into the body of the cylinder, and which possesses a slot of equal size to that of the round recess in the body of the cylinder and a reduced wall thickness over 90 DEG of its circumference. <??>By rotating the tube, the rubber covering is tensioned, the tensioning element locked into position and the cylinder roller completely covered by the rubber covering. <IMAGE>

## Abstract (de)

Zur Verhinderung des Kanalschlags bzw. Eingriffsstoßes in Druckwerkszylindern wird die obere Schicht des Gummibelags an dessen Enden abgetragen, so daß der Winkel zwischen oberer und unterer Belagsschicht kleiner oder 90° ist. Die verbleibenden Belagsenden werden in ein dreh- und fixierbares Rohr eingeführt, welches als Spannelement dient, das im Zylinderkörper angeordnet ist, einen gleichgroßen Schlitz wie die runde Aussparung am Zylinderkörper und eine über 90° seines Umfangs dünnere Partie aufweist. Durch Drehung des Rohres wird der Gummibelag gespannt, das Spannelement fixiert und die Zylinderwalze vollständig vom Gummibelag abgedeckt.

## IPC 1-7

**B41F 13/08; B41F 13/18; B41F 27/12**

## IPC 8 full level

**B41F 30/00** (2006.01); **B41F 13/08** (2006.01); **B41F 13/18** (2006.01); **B41F 27/12** (2006.01); **B41F 30/04** (2006.01); **B41N 7/00** (2006.01); **B41N 10/00** (2006.01); **B41N 10/06** (2006.01)

## CPC (source: EP US)

**B41F 13/08** (2013.01 - EP US); **B41F 13/18** (2013.01 - EP US); **B41F 27/125** (2013.01 - EP US); **B41F 27/1281** (2013.01 - EP US); **B41F 27/1293** (2013.01 - EP US); **B41F 30/04** (2013.01 - EP US); **B41N 7/00** (2013.01 - EP US); **B41N 10/06** (2013.01 - EP US); **B41N 2207/02** (2013.01 - EP US); **B41N 2207/14** (2013.01 - EP US)

## Citation (search report)

- [X] US 4635550 A 19870113 - BRANDS GEORGE B [US], et al
- [X] US 2629324 A 19530224 - AGNES JOHNSTON MARY
- [Y] US 3802952 A 19740409 - GURIN E, et al
- [A] GB 2167011 A 19860521 - WIFAG MASCHF
- [A] US 3765329 A 19731016 - KIRKPATRICK A, et al
- [A] FR 2055867 A5 19710514 - POLYGRAPH LEIPZIG
- [Y] PATENT ABSTRACTS OF JAPAN, vol. 8, no. 9 (M-268)[1446], 14. Januar 1984; & JP-A-58 171 958 (SUMITOMO JUKIKAI KOGYO K.K.) 08-10-1983

## Cited by

EP0614772A1; DE102010064414A1; EP1832419A3; FR2707555A1; EP1361053A3; US6530321B2; WO0170512A1; WO0139977A1; WO0139974A3; US6920824B2; US7066090B2; US7246557B2; US7523703B2

## Designated contracting state (EPC)

CH DE ES FR GB IT LI SE

## DOCDB simple family (publication)

**EP 0317656 A1 19890531; EP 0317656 B1 19920708**; DE 3780313 D1 19920813; JP H01165491 A 19890629; US 4907508 A 19900313

## DOCDB simple family (application)

**EP 87117263 A 19871124**; DE 3780313 T 19871124; JP 29481588 A 19881124; US 27338388 A 19881117