

Title (en)

Inking cylinder used in a printing apparatus and method for producing the inking cylinder.

Title (de)

Farbwerkzylinder für eine Druckmaschine und Herstellungsverfahren desselben.

Title (fr)

Cylindre encreur pour machine à imprimer et méthode pour la fabrication de ce cylindre.

Publication

**EP 0364653 A2 19900425 (EN)**

Application

**EP 89102995 A 19890221**

Priority

JP 24658788 A 19880930

Abstract (en)

An inking cylinder adapted for a keyless inking system of a printing apparatus comprises a cylindrical base member, and an ink receiving layer covered over the surface of the cylindrical base member. The ink receiving layer is composed of a flexible substrate and many fine spherical members (and hard material powder) uniformly dispersed in the flexible substrate. External shell of each the fine spherical members is partially ruptured by grinding force and its hollow interior is opened. The ink on the cylinder surface is caught by this opened hollow interior of each the fine spherical members. A method for producing the above inking cylinder comprises a first step for uniformly dispersing fine spherical members (and hard material powder) in a substrate, a second step for covering the substrate dispersed with the fine spherical members on a surface of a cylindrical base member to form an ink receiving layer on the base member, and a third step for grinding the surface of the ink receiving layer so that the fine spherical members in the surface region are partially grinded and their shells are ruptured to open the hollow interior of the fine spherical members.

IPC 1-7

**B41N 7/06**

IPC 8 full level

**B41F 31/26** (2006.01); **B41N 7/06** (2006.01)

CPC (source: EP)

**B41N 7/06** (2013.01); **B41N 2207/02** (2013.01); **B41N 2207/10** (2013.01); **B41N 2207/14** (2013.01)

Cited by

EP0367193A3; DE19814689A1; DE19814689B4; WO0032410A1; WO0059727A1; EP0499848B1; EP0363825B1

Designated contracting state (EPC)

AT CH DE FR GB IT LI

DOCDB simple family (publication)

**EP 0364653 A2 19900425**; **EP 0364653 A3 19910206**; **EP 0364653 B1 19950517**; AT E122612 T1 19950615; AU 3023289 A 19900412; AU 619251 B2 19920123; DE 68922685 D1 19950622; DE 68922685 T2 19951221; JP H0292640 A 19900403; JP H082643 B2 19960117

DOCDB simple family (application)

**EP 89102995 A 19890221**; AT 89102995 T 19890221; AU 3023289 A 19890222; DE 68922685 T 19890221; JP 24658788 A 19880930