

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.

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Application

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Priority

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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.

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