

Title (en)

Zirconia alloy cylinders and sleeves for lithographic imaging and printing methods

Title (de)

Zylinder und Hüllen für lithographische Bildanzeichnungs- und Druckmethoden auf der Basis von Zirkoniumlegierungen

Title (fr)

Cylindres et manchons à base d'un alliage de zircone pour l'enregistrement et l'impression lithographique

Publication

EP 0872339 B1 20020306 (EN)

Application

EP 97302662 A 19970418

Priority

EP 97302662 A 19970418

Abstract (en)

[origin: EP0872339A1] Rotary lithographic printing members are prepared from a non-porous zirconia ceramic that is an alloy of ZrO₂ and a second oxide chosen from MgO, CaO, Y₂O₃, Sc₂O₃, a rare earth oxide or a combination of any of these. These printing members can be rotary printing cylinders having a zirconia alloy ceramic printing surface. Such cylinders can be composed of zirconia alloy ceramic throughout, or have a ceramic sleeve or shell mounted around a non-ceramic core. In use, the surface of the zirconia alloy ceramic printing member is imagewise exposed to infrared radiation which transforms it from a hydrophilic to an oleophilic state or from an oleophilic to a hydrophilic state, thereby creating a lithographic printing surface which is hydrophilic in non-image areas and is oleophilic and thus capable of accepting printing ink in image areas. These printing members are directly laser-imageable as well as image erasable. <IMAGE>

IPC 1-7

B41C 1/10; **B41N 1/08**

IPC 8 full level

B41C 1/10 (2006.01); **B41N 1/08** (2006.01)

CPC (source: EP)

B41C 1/1041 (2013.01); **B41N 1/08** (2013.01)

Cited by

EP1995060A1; DE10126264A1; CZ300557B6; EP1254768A3; US6919165B2; US9545785B2; US9586392B2; US9956756B2

Designated contracting state (EPC)

BE CH DE GB LI

DOCDB simple family (publication)

EP 0872339 A1 19981021; **EP 0872339 B1 20020306**; DE 69710867 D1 20020411; DE 69710867 T2 20021031

DOCDB simple family (application)

EP 97302662 A 19970418; DE 69710867 T 19970418