

Title (en)

Method and coating agent for electrocoagulation printing

Title (de)

Methode und Überzugsmittel zum elektrokoagulationsdrucken

Title (fr)

Méthode et revêtement pour l'impression par électrocoagulation

Publication

EP 0899093 A3 19990428 (EN)

Application

EP 98116206 A 19980827

Priority

CA 2214606 A 19970829

Abstract (en)

[origin: EP0899093A2] An improved electrocoagulation printing method comprises the steps of a) providing a positive electrode having a passivated surface moving at substantially constant speed along a predetermined path; b) coating the positive electrode surface with a coating agent containing silicon oxide and an oily substance to form on the surface micro-droplets of the coating agent; c) forming on the positive electrode surface having micro-droplets thereon a plurality of dots of coagulated ink representative of a desired image, by electrocoagulation of an electrolytically coagulable printing ink comprising an electrolytically coagulable polymer, a liquid medium, a soluble electrolyte and a coloring agent; and d-1) bringing a substrate into contact with the positive electrode surface to cause transfer of the dots of coagulated ink from the positive electrode surface onto the substrate and thereby imprint the substrate with the image. The method prevents anode abrasion and pitting during electrocoagulation printing. <IMAGE>

IPC 1-7

B41C 1/10

IPC 8 full level

B41C 1/10 (2006.01); **B41M 5/20** (2006.01); **B41N 3/00** (2006.01); **C09D 11/00** (2006.01); **C09D 11/52** (2014.01)

CPC (source: EP)

B41C 1/105 (2013.01)

Citation (search report)

[A] US 5538601 A 19960723 - CASTEGNIER ADRIEN [CA]

Cited by

EP1036653A3; EP1247646A3; US6406606B1; US6859542B2; USRE40781E

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 0899093 A2 19990303; **EP 0899093 A3 19990428**; **EP 0899093 B1 20020313**; CA 2214606 A1 19990228; CA 2214606 C 20021119; DE 69804175 D1 20020418; DE 69804175 T2 20020926; JP H11138984 A 19990525

DOCDB simple family (application)

EP 98116206 A 19980827; CA 2214606 A 19970829; DE 69804175 T 19980827; JP 24360798 A 19980828