

Title (en)
ELECTRICAL COAGULATION PRINTING METHOD AND ELECTRICAL COAGULATION PRINTING APPARATUS

Title (de)
VERFAHREN UND GERÄT ZUM DRUCKEN MITTELS ELEKTRISCHER KOAGULATION

Title (fr)
PROCEDE ET DISPOSITIF D'IMPRESSION PAR COAGULATION ELECTRIQUE

Publication
EP 0822462 A1 19980204 (EN)

Application
EP 97902708 A 19970217

Priority
• CA 2169669 A 19960216
• JP 9700418 W 19970217

Abstract (en)
Electrocoagulation printing method and apparatus are provided which prevents formation of undesirable background (fogging) on electrocoagulation printed images. The apparatus includes: a revolving cylinder (12) formed of an electrolytically inert metal and having a continuous passivated surface (12B) as a positive electrode active surface moving along a predetermined path; an inkер (32) which feeds electrocoagulation printing ink for the surface (12B); a printing head (30) for forming on the surface (12B) dots of coagulated ink by electrocoagulation; an oil cascade unit (40) which supplies a first oily substance for the surface (12B) and removes fogging ink mixed with the first oily substance from the surface (12B) without altering the dots of coagulated ink; and a pressure roller (70) which brings a printing substrate (80) into contact with the dots of coagulated ink to cause transfer of the dots of coagulated ink from the surface (12B) to the printing substrate (80). The oil cascade unit (40) allows the fogging ink mixed with the first oily substance to be dislodged from the surface (12B) without altering the dots of coagulated ink, and therefore, formation of an undesirable background (fogging) on a printed images can be prevented. <IMAGE>

IPC 1-7
G03G 15/00; **B41J 3/00**

IPC 8 full level
B41C 1/10 (2006.01); **B41J 2/385** (2006.01); **B41J 2/39** (2006.01)

CPC (source: EP)
B41C 1/105 (2013.01); **B41J 2/3855** (2013.01); **B41J 2/39** (2013.01)

Cited by
EP1068950A1; US6386683B1

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
EP 0822462 A1 19980204; **EP 0822462 A4 19990506**; **EP 0822462 B1 20030502**; AU 1672997 A 19970902; CA 2169669 A1 19970817; CA 2169669 C 20010123; DE 69721409 D1 20030605; DE 69721409 T2 20031113; WO 9730379 A1 19970821

DOCDB simple family (application)
EP 97902708 A 19970217; AU 1672997 A 19970217; CA 2169669 A 19960216; DE 69721409 T 19970217; JP 9700418 W 19970217