

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

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Application

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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>

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