

Title (en)
REVERSE FLOW BINARY IMAGE DEVELOPMENT

Title (de)
RÜCKWÄRTSFLUSS-BINÄRBILDENTWICKLUNG

Title (fr)
DÉVELOPPEMENT D IMAGE BINAIRE À ÉCOULEMENT INVERSE

Publication
EP 1864189 B1 20110907 (EN)

Application
EP 05709117 A 20050222

Priority
IL 2005000217 W 20050222

Abstract (en)
[origin: WO2006090352A1] A binary image development printing system (100) using liquid toner, the system comprising: a) a developer member (104) configured so its surface moves in a first direction; b) at least one electrode (106, 108), separated from the developer surface by a gap (110) running part of the way around the developer surface; c) an inlet (111) for introducing the liquid toner into the gap (110); d) a voltage source (109) configured to apply a voltage difference between the electrode (106, 108) and the developer surface, sufficient to cause at least some toner particles in the liquid toner to be deposited in a toner layer (112) on the developer surface, when the liquid toner is introduced into the gap through the inlet (111); and e) a pump (138, 140) which causes a portion of the liquid toner introduced into the gap (110) through the inlet (111) to flow along the gap in a second direction opposite to the first direction, wherein the portion is more than 30% and/or wherein the portion is sufficiently great so that, when the voltage difference is applied, most of the toner particles deposited in the toner layer (112) come from said portion.

IPC 8 full level
G03G 15/10 (2006.01)

CPC (source: EP)
G03G 15/101 (2013.01); **G03G 2215/0658** (2013.01)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2006090352 A1 20060831; AT E523816 T1 20110915; EP 1864189 A1 20071212; EP 1864189 B1 20110907; JP 2008532063 A 20080814; JP 4603051 B2 20101222

DOCDB simple family (application)
IL 2005000217 W 20050222; AT 05709117 T 20050222; EP 05709117 A 20050222; JP 2007555769 A 20050222