

Title (en)
Electrophotographic color printer and method

Title (de)
Elektrofotografisches Verfahren und Farbdrucker

Title (fr)
Méthode et imprimante électrophotographique couleur

Publication
EP 0547348 B1 19970709 (EN)

Application
EP 92118744 A 19921102

Priority
US 81223691 A 19911217

Abstract (en)
[origin: EP0547348A2] A color development system (10), method, and apparatus for an electrophotographic color printer (80) which utilizes a plurality of developer rollers (22, 24, 26, 28) positioned at stationary locations between individual sources of color toner (29, 31, 33, 35) and the surface of an adjacent photoconductive drum (50). Each of these developer rollers (22, 24, 26, 28) are rotated about a fixed axis of rotation (38, 40, 42, 44) to attract charged color toners to the surface thereof while simultaneously being selectively driven by sources (45, 47, 49, 51) of AC and DC signal voltage to thereby electrostatically project colored toners of cyan, yellow, magenta, and black onto the surface of the photoconductive drum (50). Individual colored toner layers are then developed on the surface of the photoconductive drum (50) and then serially transferred to an adjacent print media (62) which passes between the surface (48) of the photoconductive drum (50) and an adjacent transfer roller (58). The print media (62) traverses a 360<0> path for the transfer thereon of each of the cyan, yellow, magenta, and black color images, and each color plane is successively fused into the paper on each 360<0> pass. The composite developed color image is then passed by a fuser roller (90, 92) and into a paper collection tray or bin (84). <IMAGE>

IPC 1-7
G03G 15/01

IPC 8 full level
B41J 2/525 (2006.01); **G03G 15/01** (2006.01); **G03G 15/05** (2006.01)

CPC (source: EP)
G03G 15/0126 (2013.01); **G03G 15/0163** (2013.01)

Citation (examination)
EP 0370455 A2 19900530 - KONISHIROKU PHOTO IND [JP]

Cited by
EP0867781A1; US6768880B2

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
EP 0547348 A2 19930623; EP 0547348 A3 19930915; EP 0547348 B1 19970709; DE 69220764 D1 19970814; DE 69220764 T2 19971106; JP H05307310 A 19931119

DOCDB simple family (application)
EP 92118744 A 19921102; DE 69220764 T 19921102; JP 35499592 A 19921217