

Title (en)

Apparatus and method for conditioning a dry toner image

Title (de)

Gerät und Verfahren zum Aufbereiten eines Trockentonerbildes

Title (fr)

Appareil et méthode de conditionnement d'une image de toner sec

Publication

EP 0704773 A2 19960403 (EN)

Application

EP 95306921 A 19950929

Priority

US 31600794 A 19940930

Abstract (en)

Apparatus for color printing which employs a conditioning roller (50) for conditioning a dry toner image (24). An intermediate member (20) first acts as a receptor for marking particles representing an image, whereby the marking particles may be deposited directly or indirectly on the member. The member is then exposed, via an internal heat source (32), to an elevated temperature sufficient to cause the melting and coalescing of the marking particles. The tackified image (30) is condition by a conditioning roller. The rollers create a thinner, more cohesive image without degradation of the image for subsequent imaging. In a multicolor printing configuration, the intermediate member is advanced and at least a second color marking particles is deposited onto the previous image. The image is again conditioned by the conditioning roller. When the multicolor, tackified image is completed, or for monochrome printing, when the single color image is completed, the intermediate member is advanced so as to place the multicolored tackified marking particles present on the outer surface thereof into intimate contact with the surface of a recording sheet (26).
<IMAGE>

IPC 1-7

G03G 15/16; **G03G 15/01**

IPC 8 full level

G03G 15/01 (2006.01); **G03G 15/16** (2006.01); **G03G 15/20** (2006.01)

CPC (source: EP)

G03G 15/0131 (2013.01); **G03G 15/169** (2013.01)

Citation (applicant)

- US 4619515 A 19861028 - MACZUSZENKO ANDRZEJ [CA], et al
- US 4463363 A 19840731 - GUNDLACH ROBERT W [US], et al
- US 5185619 A 19930209 - SNELLING CHRISTOPHER [US]
- US 2968552 A 19610117 - GUNDLACH ROBERT W
- US 5153615 A 19921006 - SNELLING CHRISTOPHER [US]
- US 5087946 A 19920211 - DALAL EDUL N [US], et al
- US 5191381 A 19930302 - YUAN JIE [US]

Cited by

US6584294B1; US7092667B1; WO0031593A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0704773 A2 19960403; **EP 0704773 A3 19970813**; JP H08114999 A 19960507

DOCDB simple family (application)

EP 95306921 A 19950929; JP 24561695 A 19950925