

Title (en)

Film-forming roller for liquid electrophotography.

Title (de)

Walze zur Herstellung eines Filmes in der Flüssigtoner Elektrophotographie.

Title (fr)

Rouleau pour la formation d'un film en électrophotographie utilisant un toner liquide.

Publication

**EP 0672965 A1 19950920 (EN)**

Application

**EP 95301249 A 19950227**

Priority

US 21490394 A 19940316

Abstract (en)

The invention is a relatively soft film-forming roller (FR), which may be conductive and electrically biased, in contact with the photoconductor surface downstream of the developer station from the perspective of travel of the photoconductor surface. The film-forming roller (FR) is internally heated to a surface temperature of approximately 40 DEG C, and applied to the photoconductor surface at a pressure of approximately 1/2 lb/linear inch. The film-forming roller (FR) acts to dry the latent image by evaporating the liquid toner carrier medium, and by increasing the temperature of the toner film. The combined charge, heat and pressure of the film-forming roller (FR) will accelerate film forming of the latent image as it passes through the roller. Preferably, the film-forming roller (FR) is utilized in a liquid toner, laser printer with an intermediate, indirect image transfer system (T1,T2).  
<IMAGE>

IPC 1-7

**G03G 15/11**; **G03G 15/16**

IPC 8 full level

**G03G 15/00** (2006.01); **G03G 15/10** (2006.01); **G03G 15/11** (2006.01); **G03G 15/16** (2006.01)

CPC (source: EP)

**G03G 15/11** (2013.01); **G03G 15/169** (2013.01)

Citation (search report)

- [A] US 5136334 A 19920804 - CAMIS THOMAS [US], et al
- [DA] US 4286039 A 19810825 - LANDA BENZION, et al
- [A] US 3689147 A 19720905 - SUZUKI SHIGERU
- [DA] US 5028964 A 19910702 - LANDA BENZION [CA], et al

Cited by

US5916718A; US5650253A; CN111052000A; EP3619578A4; WO2007001303A1; WO2019074519A1; US11487225B2

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

**EP 0672965 A1 19950920**; JP H07311503 A 19951128

DOCDB simple family (application)

**EP 95301249 A 19950227**; JP 5706495 A 19950316