

Title (en)

Printing of radiation curable inks into a radiation curable liquid layer.

Title (de)

Druck der strahlungshärtbaren Tinten in eine flüssige strahlungshärtbare Schicht

Title (fr)

Impression d'encres durcissables par rayonnement sur une couche liquide durcissable par rayonnement

Publication

EP 1652686 A1 20060503 (EN)

Application

EP 05107954 A 20050831

Priority

- EP 04105394 A 20041029
- EP 05107954 A 20050831

Abstract (en)

A printing process is disclosed for ink-jet printing a radiation curable image on a substrate (14). First a radiation curable liquid layer (12) is provided on at least a portion of the substrate (14). Radiation curable ink-jet ink droplets (10) are jetted into the radiation curable liquid layer (12) and the radiation curable liquid layer (12) containing the radiation curable ink-jet ink droplets (13) is then cured. The resolution of the radiation curable image is controlled by uniformly adjusting the thickness of the liquid layer (12) for the dotsize of the radiation curable ink-jet ink jetted onto the cured layer.

IPC 8 full level

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CPC (source: EP US)

B41M 7/0081 (2013.01 - EP US)

Citation (applicant)

- US 6720042 B2 20040413 - YLITALO CAROLINE M [US], et al
- WO 03074619 A1 20030912 - DOTRIX NV [BE], et al
- US 6550905 B1 20030422 - DECKERS BERNARD J [BE]
- WO 0030856 A1 20000602 - XAAR TECHNOLOGY LTD [GB], et al
- US 4857630 A 19890815 - KIM YOUNG H [US]
- US 5196502 A 19930323 - TURNER S RICHARD [US], et al
- US 5225522 A 19930706 - TURNER S RICHARD [US], et al
- EP 0776952 A2 19970604 - EASTMAN KODAK CO [US]

Citation (search report)

- [DA] US 6720042 B2 20040413 - YLITALO CAROLINE M [US], et al
- [DA] US 6550905 B1 20030422 - DECKERS BERNARD J [BE]

Cited by

ES2340456A1; EP1958994A1; EP3822089A1; EP1955858A1; FR2906185A1; EP1905296A1; EP1738910A3; EP2053104A1; EP1905609A3; US11338603B2; US8541063B2; US8075123B2; WO2015078449A1; WO2009053311A3; US7874663B2; US12083735B2; US7798630B2; US8192803B2; US8371688B2; US11498351B2; US11559824B2; US11141759B2; US11420229B2; US11511318B2; US11717850B2; US11717851B2; US11883843B2; US12090511B2; EP1905608B2; EP3109056B1; EP3109056B2

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DOCDB simple family (application)

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