

Title (en)

Printing method and printer suitable for applying said method

Title (de)

Druckverfahren und Drucker geeignet zur Durchführung des Verfahrens

Title (fr)

Procédé d'impression et imprimante adaptée à la réalisation de ce procédé

Publication

**EP 1717035 A1 20061102 (EN)**

Application

**EP 06112807 A 20060420**

Priority

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- EP 06112807 A 20060420

Abstract (en)

The invention pertains to a method for transferring ink to a receiving material using an inkjet printer having an ink chamber (10) with a nozzle (8) and an electromechanical transducer (16) in cooperative connection with the ink chamber, comprising actuating the transducer to generate a pressure wave in the ink chamber to expel a volume of ink from the nozzle, the pressure wave being such that it induces splitting of the said volume in a first and second ink droplet (36,37), wherein the transducer is actuated such that the volume of ink that is forced to be expelled from the ink chamber experiences a supercritical acceleration in the direction of the receiving material, whereafter the transducer is actuated to retract the second droplet (36) into the ink chamber. The invention also pertains to a print head adjusted for applying the said method and a printer incorporating such a print head.

IPC 8 full level

**B41J 2/14** (2006.01)

CPC (source: EP)

**B41J 2/04581** (2013.01); **B41J 2/04588** (2013.01); **B41J 2/14233** (2013.01)

Citation (applicant)

US 6513894 B1 20030204 - CHEN ALVIN U [US], et al

Citation (search report)

- [A] US 6513894 B1 20030204 - CHEN ALVIN U [US], et al
- [A] US 6629741 B1 20031007 - OKUDA MASAKAZU [JP], et al

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