

Title (en)
Printing process by ink deposition with relief effect

Title (de)
Druckverfahren durch Tintenablage mit Reliefeffekt

Title (fr)
Procédé d'impression par dépôt d'encre à effet relief

Publication
EP 1234680 A1 20020828 (FR)

Application
EP 02290270 A 20020205

Priority
FR 0102412 A 20010222

Abstract (en)
Method for applying decoration to a support (100) in which means (10) are used to deposit an ink solution (200) on the support. The ink contains thermally expandable particles and a microwave device (20) is used to expose the support and ink to microwaves such that the particles deposited in the ink solution expand. The invention also relates to a corresponding article having a support on which an ink design can be deposited, such as a bottle, container, pot, cardboard box, etc.

Abstract (fr)
La présente demande concerne un procédé pour appliquer un décor sur un support (100) dans lequel on dépose (10) sur le support (100) une solution (200) à base d'encre qui contient des particules thermoexpandibles, et on expose (20) le support (100) à des micro-ondes de manière à ce que lesdites particules déposées sur le support soient expansées. <IMAGE>

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IPC 8 full level
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B41M 3/00 (2013.01 - EP US)

Citation (search report)
• [XY] EP 0348372 A2 19891227 - CASCO NOBEL AB [SE]
• [Y] WO 9203296 A1 19920305 - EASTMAN KODAK CO [US]
• [Y] EP 0559324 A1 19930908 - XEROX CORP [US]

Cited by
EP1792730A3; EA019015B1; WO2009106799A1

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EP 1234680 A1 20020828; CA 2371350 A1 20020822; FR 2821016 A1 20020823; FR 2821016 B1 20031226; JP 2002321436 A 20021105;
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