

Title (en)
METHOD FOR THE PRODUCTION OF THERMALLY CROSS-LINKED LASER ENGRAVABLE FLEXOGRAPHIC ELEMENTS AND MULTI-LAYER COMPOSITES

Title (de)
VERFAHREN ZUR HERSTELLUNG VON THERMISCH VERNETZTEN, LASERGRAVIERBAREN FLEXODRUCKELEMENTEN
UNDMEHRSCHICHTVERBUNDE

Title (fr)
PROCEDE DE PRODUCTION D'ELEMENTS FLEXOGRAPHIQUES A RETICULATION THERMIQUE ET POUVANT ETRE GRAVES PAR LASER
ET COMPOSITES MULTICOUCHES

Publication
EP 1353802 B1 20040818 (DE)

Application
EP 02702237 A 20020107

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Abstract (en)
[origin: US6794115B2] Laser-engrable flexographic printing elements including a thermally crosslinked, elastomeric, laser-engrable relief-forming layer E are made by producing a multilayer composite which has at least a two-layer composite formed of a depot layer D and an uncrosslinked precursor layer V for the relief-forming layer E which is directly adjacent to the depot layer D. Optionally, the multilayer composite may include further layers, such as support foils or films and/or protective films. The precursor layer V most preferably includes at least one elastomeric binder, and at least one ethylenically unsaturated monomer and, optionally an absorber for laser radiation and/or further additives. The depot layer D most preferably includes at least one elastomeric binder, and at least one thermally decomposing polymerization initiator and, optionally, an absorber for laser radiation and/or further additives. The thermally decomposing polymerization initiators are allowed to diffuse out of the depot layer D into the precursor layer V. If desired the depot layer D may be removed. Thermal crosslinking of the precursor layer V thereby yields the crosslinked elastomeric, laser-engrable, relief-forming layer E.

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IPC 8 full level
G03F 7/004 (2006.01); **B41C 1/05** (2006.01); **B41N 1/12** (2006.01); **G03F 7/00** (2006.01); **G03F 7/11** (2006.01)

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