

Title (en)
DYE PATTERN ABSORPTION INTO PLASTICS

Publication
EP 0097528 A3 19850814 (EN)

Application
EP 83303573 A 19830621

Priority
US 39020082 A 19820621

Abstract (en)
[origin: EP0097528A2] Method, apparatus and product are provided for absorption of a dye pattern on and below the surface of a plastic article including webs wherein one or more disposed dyes are applied to the surface of the article in a desired pattern. Sufficient subliming energy by application of heat or application of radio frequency waves to the dye deposited or printed surface of the plastic article, sufficient to heat the dyes to a sublimation temperature therefor causes the dyes and dye pattern to sublime on and below the surface of the plastic article. Also provided is a method for laminating or fusing the reverse side of the plastic article to a substrate during the dye sublimation process. Also provided is a method for thermoforming the plastic article during or after the dye sublimation process. Further provided is a decorated plastic article having a substantially non-porous surface penetrated with dispersed dyes therein in a pattern, said pattern being durable against weathering. The article can be of thermoplastic or thermo-set plastic.

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; **B41M 1/30**

IPC 8 full level
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CPC (source: EP)
B41M 5/0358 (2013.01)

Citation (search report)
• [X] FR 2318193 A1 19770211 - OZALID GROUP HOLDINGS LTD [GB]
• [X] CH 532477 A 19730115 - CIBA GEIGY AG [CH]
• [X] GB 813930 A 19590527 - ATOMIC ENERGY AUTHORITY UK

Cited by
FR2881986A1; US5380391A; EP0984453A3; EP1790491A3; US5364688A; FR2784619A1; GB2142579A; EP3115222A1; FR2714331A1; EP0549542A1; EP0993963A1; FR2784618A1; EP0265139A3; CH662787A5; DE10061219A1; DE10061219C2; EP1223041A3; US6249297B1; WO9005640A1

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