

Title (en)

PROCESS AND APPARATUS FOR COLOURING OR PRINTING WEB-LIKE ITEMS, PARTICULARLY SKI-COVERINGS, AND SUCH ARTICLES

Publication

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Application

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Abstract (en)

[origin: US4462852A] The invention refers to a process of coloring (printing) of track-like objects (2), especially ski coverings of thermoplastics, such as olefins, especially high and low pressure polyethylene where, the layer is brought continuously as a hot foil, essentially in a state of fusion, in contact with a print carrier (3), on which there has been deposited a print pattern first of sublimation type and then of diffusion type dye stuff. A transfer of the dye onto foil (2) occurs in a short time and only essentially along a small areal strip perpendicular to the common direction of conveying of layer (2) and print carrier (3). It is preferred that the transfer of dye occurs in the gap between rollers (5, 6) through which the foil and the print carrier are guided. This allows the obtainment of warpage-free print patterns on relatively thin-walled track-like objects in a continuous process, where it is assured that no warpings occur after cooling or reheating of the printed layer. Also, migration problems are avoided by means of short-term locally limited penetration under high pressure in the roller gap.

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