

Title (en)

METHOD OF RADIATION HEATING SUBSTRATES AND APPLYING EXTRUDED MATERIAL

Title (de)

VERFAHREN ZUM STRAHLUNGSBEHEIZUNG EINES SUBSTRATS UND ZUM AUFTRAGEN EINES EXTRUSIONSMATERIAL

Title (fr)

PROCEDE DE CHAUFFAGE DE SUBSTRATS PAR RAYONNEMENT ET D'APPLICATION DE MATERIAU EXTRUDE

Publication

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Application

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Abstract (en)

[origin: WO9742793A1] A method for applying extrudable material (26) from nozzle (28) to substrate (32), in which concentrated light beam (30) as from lamp (22) is directed onto the substrate before or after application of the extrudable material. The beam energy is concentrated by mirror (24) on the substrate surface. It is subsequently transferred to the deposited extrudable material, thereby increasing the temperature and lowering the viscosity of the closely situated material, facilitating material penetration into the substrate. This allows use of illumination of modest energy density and of wavelengths not absorbed by the extrudable material. When the extrudable material is an adhesive and is applied to a plurality of substrates, of which at least one is treated with a light beam according to this method, and the extrudable materials adhered to the substrates are brought into contact, joining of the extrudable materials creates a strong bond between the substrates. The invention includes articles made by the method.

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