

Title (en)

METHOD AND DEVICE FOR THE DRYING AND/OR CROSS-LINKING OF A COATING ON A METAL STRIP WHICH CONTAINS SOLVENTS

Title (de)

VERFAHREN UND VORRICHTUNG ZUM TROCKNEN UND/ODER VERNETZEN EINER LÖSEMITTELHALTIGEN BESCHICHTUNG EINES METALLBANDS

Title (fr)

PROCEDE ET DISPOSITIF DE SECHAGE ET/OU RETICULATION D'UN REVETEMENT D'UNE BANDE METALLIQUE CONTENANT UN SOLVANT

Publication

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Application

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Abstract (en)

[origin: WO03043746A2] A method and a device for the drying and/or cross-linking of a coating on a metal strip (8) which contains solvents are disclosed, whereby the coated metal strip is fed through a drying device in a conventional manner. Within the above said strip is treated with infra-red radiation, in particular in the wavelength range between about 0.8microm and about 1.5microm. A gas is simultaneously supplied to the interior of the drying device, the temperature of which is above the condensation temperature of the solvent. In comparison to conventional methods and devices of the above type which operate with induction coils, it is primarily the coating and not the base material, in other words the metal strip (8), which is heated. The above leads to more rapid drying and cross-linking times and an improved thermal efficiency.

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