Title (en)

METHOD AND DEVICE FOR CONTINUOUSLY COATING AT LEAST A METAL STRIP WITH A CROSSLINKABLE POLYMER FLUID FILM

Title (de)

VERFAHREN UND VORRICHTUNG ZUM KONTINUIERLICHEN BESCHICHTEN EINES METALLISCHEN BANDES MIT FLÜSSIGKEITSFILM AUS VERNETZBAREM POLYMER

Title (fr)

PROCEDE ET DISPOSITIF DE REVETEMENT EN CONTINU D'AU MOINS UNE BANDE METALLIQUE PAR UN FILM FLUIDE EN POLYMERE RETICULABLE

Publication

EP 1140375 B1 20030910 (FR)

Application

EP 99957371 A 19991207

Priority

- FR 9903040 W 19991207
- FR 9815900 A 19981216
- FR 9815901 A 19981216

Abstract (en)

[origin: US6562407B1] The invention concerns a method for continuously coating at least a metal strip with a crosslikable polymer fluid film free of non-active solvent or diluent and whereof the softening temperature is higher than 50° C. The method consists in continuously unwinding the metal strip (1) on at least a back-up roll (3); forming, on a roll (20) by forced flow, a layer of said crosslinkable polymer in melted state; forming, from said layer (30), said crosslinkable polymer film (31); and transferring entirely in thickness said film onto the metal strip (1) and, between the zone forming the layer (30) on the roll (20) and the zone applying the film (31) on the metal strip, in thermally conditioning the crosslinkable polymer to reduce its viscosity. The invention also concerns a coating device for implementing said method.

IPC 1-7

B05D 1/28; B05C 1/08

IPC 8 full level

B05D 1/26 (2006.01); **B05C 1/08** (2006.01); **B05C 5/02** (2006.01); **B05D 1/28** (2006.01); **C23C 2/22** (2006.01)

CPC (source: EP KR US)

B05C 1/083 (2013.01 - EP KR US); **B05C 1/0834** (2013.01 - EP US); **B05D 1/28** (2013.01 - EP KR US); **C23C 2/22** (2013.01 - EP KR US)

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

US 6562407 B1 20030513; AT E249287 T1 20030915; AU 1509800 A 20000703; AU 765280 B2 20030911; BR 9916098 A 20010904; CA 2355383 A1 20000622; CA 2355383 C 20081007; DE 69911245 D1 20031016; DE 69911245 T2 20040909; DK 1140375 T3 20040119; EP 1140375 A1 20011010; EP 1140375 B1 20030910; ES 2207309 T3 20040516; JP 2002532231 A 20021002; KR 100598709 B1 20060710; KR 20010086114 A 20010907; PT 1140375 E 20040130; WO 0035593 A1 20000622

DOCDB simple family (application)

US 85797601 A 20010613; AT 99957371 T 19991207; AU 1509800 A 19991207; BR 9916098 A 19991207; CA 2355383 A 19991207; DE 69911245 T 19991207; DK 99957371 T 19991207; EP 99957371 A 19991207; ES 99957371 T 19991207; FR 9903040 W 19991207; JP 2000587895 A 19991207; KR 20017007543 A 20010615; PT 99957371 T 19991207