

Title (en)

Method and device for coating metallic tubes or other long components with limited cross-section

Title (de)

Verfahren und Vorrichtung zum Beschichten von metallischen Rohren oder anderen langen Bauteilen mit begrenztem Querschnitt

Title (fr)

Procédé et dispositif de revêtement de tuyaux métalliques ou d'autres composants longs ayant une section transversale limitée

Publication

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Application

EP 10157996 A 20100326

Priority

DE 102009015533 A 20090402

Abstract (en)

[origin: CA2696550A1] The invention relates to a method for coating metallic pipes (1) or other long components which have a restricted cross section, in particular pipes for heat exchangers, with an acid-resistant anti-corrosion layer and to a device for carrying out this method. In order to mechanically coat relatively long components under temporally and economically optimum conditions, in particular to coat the components continuously, the method is characterised by the following steps: supplying the pipe (1) to be coated into a first processing line in which the pipe (1) is transported axially, preheating the pipe (1) or a portion of the pipe (1), applying a primer coat, heating the pipe (1) to achieve a polarisation between primer coating and pipe (1), drying the pipe (1) to completely expel all soluble constituents, feeding the pipe (1) into a second processing line in which the pipe (1) is transported axially, preheating the pipe, applying the coating in a cross-head extruder, heating the pipe (1) in an induction furnace, curing the coated pipe (1'), and cooling the coated pipe (1'). The corresponding device is characterised by a first processing line with a first drive (3), a first preheater (4), a means (6) for applying the primer coat and at least one furnace (7, 8) for curing and drying as well as a second processing line with a second drive, a second preheater, a cross head extruder for applying the coating, an induction furnace and a curing furnace.

IPC 8 full level

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