

Title (en)

Process for continuously and chromate free coating a pipe in a fluidized bed

Title (de)

Kontinuierliche chromatfreie Rohrbeschichtung durch Wirbelsintern

Title (fr)

Procédé d'application en lit fluidisé et en continu d'un revêtement sans chromate sur un tube

Publication

EP 1384523 B1 20050817 (DE)

Application

EP 03012962 A 20030607

Priority

DE 10233345 A 20020723

Abstract (en)

[origin: EP1384523A1] A process for coating pipes comprises vortex sintering using a powdery, meltable polymer as the coating material. The pipe is first cleaned. A primer is then applied and burnt in using a middle frequency induction spool. Vaporized solvent is removed using a radial ventilation unit, and the pipe is pre-heated using an induction spool. A process for coating pipes comprises vortex sintering using a powdery, meltable polymer as the coating material. The pipe is first cleaned. A primer is then applied and burnt in using a middle frequency induction spool. Vaporized solvent is removed using a radial ventilation unit, and the pipe is pre-heated using an induction spool. Powder is prevented from clumping together by air shower members and guide plates. A further induction spool smooths out incompletely melted areas, and an air shower is used to pre-cool the pipe surface. Final cooling takes place in a water bath.

IPC 1-7

B05D 1/24; **B05C 19/02**

IPC 8 full level

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CPC (source: EP KR)

B05D 1/22 (2013.01 - KR); **B05D 1/24** (2013.01 - EP); **B05D 7/146** (2013.01 - EP); **B05D 7/546** (2013.01 - EP); **B05D 3/0245** (2013.01 - EP); **B05D 3/0281** (2013.01 - EP); **B05D 3/0426** (2013.01 - EP); **B05D 2254/00** (2013.01 - EP)

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DOCDB simple family (publication)

EP 1384523 A1 20040128; **EP 1384523 B1 20050817**; AT E302069 T1 20050915; BR 0302592 A 20040824; CA 2435690 A1 20040123; CN 100509178 C 20090708; CN 1488447 A 20040414; DE 10233345 A1 20040212; DE 50300986 D1 20050922; ES 2246443 T3 20060216; JP 2004105949 A 20040408; JP 4360856 B2 20091111; KR 20040010311 A 20040131; MX PA03006198 A 20041203

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