

Title (en)

System and method for painting and drying elongated items

Title (de)

Anlage und Verfahren zur Lackierung und Trocknung von länglichen Gegenständen

Title (fr)

Système et procédé pour la peinture et le séchage des objets allongés

Publication

EP 2218996 A1 20100818 (EN)

Application

EP 10001393 A 20100210

Priority

IT VI20090025 A 20090212

Abstract (en)

A line for painting items, such as profiles and similar items, comprising at least one distributing station (2) for distributing one or more layers of a paint or dye comprising a liquid phase on at least part of the outer surface (S) of an item (P) to be painted, at least one drying station (4) for drying the paint or dye layers to at least partially remove the liquid phase. The drying station (4) comprises an irradiation device (5) for irradiating at least part of the outer surface (S) of the item (P) with a beam of electromagnetic waves whose frequency falls in the range of radio-frequencies. The irradiation device (5) comprises an electromagnetic wave generator (6) for generating electromagnetic waves in the range of radio-frequencies and an applicator (7) with at least one pair of electrodes (8, 9) designed to generate an electromagnetic field in which the item (P) is immersed. A method of painting elongate items.

IPC 8 full level

F26B 3/347 (2006.01); **F26B 15/12** (2006.01)

CPC (source: EP)

F26B 3/347 (2013.01); **F26B 15/122** (2013.01)

Citation (applicant)

- DE 19620730 A1 19971127 - GUITIS MIKHAIL PROF DR DR [DE], et al
- DE 3820265 A1 19891221 - SIEMENS AG [DE]

Citation (search report)

- [XY] DE 19620730 A1 19971127 - GUITIS MIKHAIL PROF DR DR [DE], et al
- [Y] DE 3820265 A1 19891221 - SIEMENS AG [DE]
- [Y] US 4490922 A 19850101 - GORODETSKY ALEXANDR A [SU], et al
- [XY] WO 2008055926 A1 20080515 - AKZO NOBEL COATINGS INT BV [NL], et al
- [A] US 4050888 A 19770927 - PFISTER LEWIS, et al
- [A] EP 1867941 A1 20071219 - B LUX IMPIANTI ELETTRICI SNC [IT]
- [A] US 5323544 A 19940628 - OSGOOD JOHN H [US]
- [A] WO 0205597 A1 20020117 - HEATWAVE DRYING SYSTEMS LTD [CA]
- [A] DE 202007007421 U1 20070802 - GRZESKOWIAK HANS [DE], et al
- [A] WO 9219082 A1 19921029 - IMATRAN VOIMA OY [FI]
- [A] US 3935647 A 19760203 - ASCHBERGER ANTON A

Cited by

CN112815684A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

EP 2218996 A1 20100818; IT 1392998 B1 20120402; IT VI20090025 A1 20100813

DOCDB simple family (application)

EP 10001393 A 20100210; IT VI20090025 A 20090212