

Title (en)

APPARATUS AND METHOD FOR THE DRYING/CURING OF CHEMICAL PRODUCTS

Title (de)

VORRICHTUNG UND VERFAHREN ZUM TROCKNEN/HÄRTEN VON CHEMISCHEN PRODUKTEN

Title (fr)

APPAREIL ET PROCÉDÉ DE SÉCHAGE/DURCISSEMENT DE PRODUITS CHIMIQUES

Publication

EP 4067797 A1 20221005 (EN)

Application

EP 22153139 A 20220125

Priority

- IT 202100001580 A 20210127
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Abstract (en)

Apparatus (100, 200) for photopolymerizing/drying a coating applied to pieces (10) wherein said pieces (10) to be dried are conveyed inside an inert tunnel (30) inside which there is provided a controlled atmosphere having a composition different from the earth atmosphere, said apparatus comprising:- a conveyor of said pieces,- at least a supplying bar (1, 2, 3, 4, 5, 6) for the controlled supply of an inert gas,- said inert tunnel being provided with at least one photopolymerizing/drying lamp (12) for photopolymerizing/drying said coating applied to said pieces (10), characterized in that the inlet and/or outlet of said pieces (10) to be dried, said tunnel (30) is provided with at least one device, preferably in the form of a hood (31, 32), suitable for generating an air blade. In a further feature said tunnel (30) is in a fluidic connection with a fixture (40) inside which there is provided said lamp (42), said fixture (40) being isolated from the natural earth atmosphere; said fixture (40) being supplied with the same inert gas provided through said bars (1, 2, 3, 4, 5, 6), which gas reaches the inert tunnel (30) through said fluidic connection in addition and/or alternatively to the inert gas provided by said supplying bars (1, 2, 3, 4, 5, 6).

IPC 8 full level

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Citation (applicant)

EP 2198981 B1 20151014 - IOT INNOVATIVE OBERFLÄCHENTECHNOLOGIEN GMBH [DE]

Citation (search report)

- [XAI] DE 3416502 A1 19851107 - GOLDSCHMIDT AG TH [DE]
- [X] CZ 20031060 A3 20040317 - MESSER GRIESHEIM GMBH [DE]
- [A] AT 380949 B 19860725 - LOHMANN GMBH & CO KG [DE]
- [A] CN 202719846 U 20130206 - HANGZHOU DAHE THERMO MAGNETICS CO LTD
- [A] JP S5332861 U 19780322
- [A] DE 19933960 C1 20010201 - STURM MASCHB GMBH [DE]
- [A] US 2006201018 A1 20060914 - MCKAY KEVIN [US], et al
- [A] EP 1967284 A2 20080910 - IST METZ GMBH [DE]
- [A] US 4143468 A 19790313 - NOVOTNY JEROME L, et al
- [A] WO 2015022857 A1 20150219 - NGK INSULATORS LTD [JP]
- [A] JP 2014023993 A 20140206 - KONICA MINOLTA INC
- [A] US 6621087 B1 20030916 - BISGES MICHAEL [DE], et al
- [A] US 6088931 A 20000718 - AYLOR JOHN E [US], et al

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