

Title (en)

Process and apparatus for treating a substrate and/or a coating material on a substrate

Title (de)

Verfahren und Vorrichtung zur Behandlung eines Beschichtungsstoffes auf einem Substrat und/oder eines Substrats

Title (fr)

Procédé et dispositif pour le traitement d'un substrat et/ou d'un matériau de revêtement sur un substrat

Publication

EP 1327844 A2 20030716 (DE)

Application

EP 02028602 A 20021220

Priority

DE 10200757 A 20020110

Abstract (en)

A substrate (16,52) or a substrate with a coating (50) is prepared and then either cured, cross-linked and/or dried using microwaves (60,62) with two or more wavelengths. Independent claims are made for: (1) the process equipment which includes a microwave source (36), an emitter (38) and control unit (66) for producing microwaves with two different wavelengths; (2) a use of a microwave tunnel oven (10) for treatment of a coating material on a substrate and/or a substrate.

Abstract (de)

Die Erfindung betrifft ein Verfahren zur Härtung, Vernetzung und/oder Trocknung von Beschichtungsstoffen (50) und/oder Substraten (16, 52) und eine neue Verwendung eines Mikrowellenofens (10) und zeichnet sich durch die Verwendung von Mikrowellen (54) mit mindestens zwei Wellenlängen aus. <IMAGE>

IPC 1-7

F26B 3/347; **F26B 15/18**

IPC 8 full level

F26B 3/34 (2006.01); **F26B 3/347** (2006.01); **F26B 15/18** (2006.01)

CPC (source: EP)

F26B 3/347 (2013.01); **F26B 15/18** (2013.01)

Citation (applicant)

- JP H04260472 A 19920916 - TOYOTA CENTRAL RES & DEV, et al
- FR 2458323 A1 19810102 - ANVAR
- DE 4121203 A1 19930114 - LINDEN ALFRED [DE]
- DE 1962651 A1 19700702 - ROSSI LIONELLO
- DE 19721461 A1 19981126 - DAIMLER BENZ AEROSPACE AIRBUS [DE]
- US 4765773 A 19880823 - HOPKINS HARRY C [US]
- US 5431966 A 19950711 - DAUDE GERARD [FR], et al
- US 4728762 A 19880301 - ROTH HOWARD [US], et al

Citation (examination)

US 4123230 A 19781031 - KIRKBRIDE CHALMER G

Cited by

EP1782892A3; DE102008035755A1; EP1715017A1; EP2155621A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SI SK TR

DOCDB simple family (publication)

EP 1327844 A2 20030716; **EP 1327844 A3 20060517**; DE 10200757 A1 20030821; DE 10200757 B4 20070614

DOCDB simple family (application)

EP 02028602 A 20021220; DE 10200757 A 20020110