

Title (en)  
PROCESS AND APPARATUS FOR IMPREGNATING OR COATING OBJECTS

Publication  
**EP 0374649 A3 19910417 (DE)**

Application  
**EP 89122754 A 19891209**

Priority  
DE 3842642 A 19881218

Abstract (en)  
[origin: EP0374649A2] A process for impregnating or coating objects in conjunction with the intermittent passage of the objects through an impregnating or coating zone, a drying and/or hardening furnace and a cooling zone, immersion or flooding of the objects in the impregnating or coating zone into the or by the liquid impregnating or coating means and thermal afterburning of organic components in the exhaust air of the drying and hardening furnace is characterised in that the objects are led immediately after one another through an inlet lock, the impregnating or coating zone, at least one dripping and preheating zone, the drying and/or hardening furnace, at least one cooling zone and an outlet lock, at least a part of the inlet air is introduced into one of the cooling zones and at least a part of the air introduced into the cooling zone is caused to go via the outlet lock, an air current is led from the cooling zone via the drying and/or hardening furnace to the thermal afterburning and a part of the waste heat of the thermal afterburning is transferred to the contents of the drying and/or hardening furnace, the inlet and outlet locks being zones that are arranged between two doors that can be closed in an essentially gas-tight fashion. The apparatus for carrying out the process has devices for this purpose.  
<IMAGE>

IPC 1-7  
**B05B 15/12**

IPC 8 full level  
**B05D 1/00** (2006.01); **B05B 15/12** (2006.01); **B05B 16/20** (2018.01); **B05C 3/10** (2006.01); **B05C 9/14** (2006.01); **B05C 21/00** (2006.01); **B05D 1/18** (2006.01); **B05D 3/04** (2006.01); **F26B 21/00** (2006.01); **F26B 23/02** (2006.01)

CPC (source: EP)  
**B05B 16/20** (2018.01); **B05D 3/04** (2013.01)

Citation (search report)  
• [A] GB 2024041 A 19800109 - DUERR OTTO ANLAGEN GMBH  
• [A] FR 2534155 A1 19840413 - MICHAUD ET CIE ATELIERS [FR]  
• [A] DE 2501268 A1 19760722 - BRUST OTTO DIPL ING  
• [A] I-LACK, Band 56, März 1988, Seiten 77-79; H. STRAUSS: "2 kombinierte Nasslackierverfahren mit umfassender Entsorgung - Praxisbeispiel Rockinger"  
• [A] OBERFLÄCHE + JOT, Nr. 4, 1988, Seiten 64-68; E. VICK: "Lackieren ohne Abluftprobleme"

Designated contracting state (EPC)  
AT CH DE FR GB IT LI NL

DOCDB simple family (publication)  
**EP 0374649 A2 19900627; EP 0374649 A3 19910417; EP 0374649 B1 19930512**; AT E89196 T1 19930515; CZ 712389 A3 19930317; DD 286306 A5 19910124; DE 3842642 A1 19900705; DE 58904347 D1 19930617; HU 896649 D0 19900228; HU H3650 A 19930301

DOCDB simple family (application)  
**EP 89122754 A 19891209**; AT 89122754 T 19891209; CS 712389 A 19891215; DD 33574989 A 19891215; DE 3842642 A 19881218; DE 58904347 T 19891209; HU 664989 A 19891218