

Title (en)

COATING AND DRYING OF ARTICLES WITH INFRARED RADIATION

Title (de)

BESCHICHTUNG UND TROCKNUNG MIT INFRAROTSTRAHLUNG VON GEGENSTÄNDEN

Title (fr)

RENETEMENT D'OBJETS ET SECHAGE AUX RAYONS INFRAROUGES

Publication

EP 1144129 B1 20030423 (DE)

Application

EP 99955871 A 19991021

Priority

- DE 19857045 A 19981210
- EP 9908003 W 19991021

Abstract (en)

[origin: DE19857045A1] The invention relates to a method for drying coated and/or impregnated objects (5), especially of varnished painted wood. According to said method, a coating and/or impregnating agent applied on the surface of the respective object is dried by infrared radiation of the coated or impregnated object before the characteristic period for drying has expired. The characteristic period is determined by the time during which an absorption, that means a penetration of components of the coating and/or impregnating agent (22) into the object (5) takes place so that the quality of the coating or impregnation is impaired. Alternatively or additionally thereto, the characteristic period is determined by the fact that after expiration of said period the penetration of a solvent and/or diluent of the coating and/or impregnating agent (22) which solvent and/or diluent should be stripped and/or bound during drying has caused the fibers of the object (5) to stand up so that a secondary treatment of the surface is required or desirable.

IPC 1-7

B05D 7/06; **B05D 3/02**

IPC 8 full level

B05D 3/02 (2006.01); **B05D 7/06** (2006.01); **F26B 3/30** (2006.01); **F26B 9/06** (2006.01)

CPC (source: EP US)

B05D 3/0263 (2013.01 - EP US); **B05D 7/06** (2013.01 - EP US); **F26B 3/30** (2013.01 - EP US); **B27N 9/00** (2013.01 - EP US); **F26B 2210/16** (2013.01 - EP US)

Cited by

DE202008013808U1; US7998571B2; US7754320B2; EP3073215A1; DE102015205338A1; US9841234B2

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

DE 19857045 A1 20000621; **DE 19857045 C2 20010201**; AU 1265200 A 20000626; BR 9916075 A 20010904; CA 2353850 A1 20000615; DE 59905244 D1 20030528; EP 1144129 A1 20011017; EP 1144129 B1 20030423; EP 1144129 B2 20060927; ES 2198971 T3 20040201; ES 2198971 T5 20070416; JP 2002531263 A 20020924; US 6858261 B1 20050222; WO 0033978 A1 20000615

DOCDB simple family (application)

DE 19857045 A 19981210; AU 1265200 A 19991021; BR 9916075 A 19991021; CA 2353850 A 19991021; DE 59905244 T 19991021; EP 9908003 W 19991021; EP 99955871 A 19991021; ES 99955871 T 19991021; JP 2000586463 A 19991021; US 85783101 A 20010907