

Title (en)

FIBROUS LAMINATE AND PROCESS OF PRODUCING THE SAME

Publication

EP 0312090 A3 19900613 (EN)

Application

EP 88117120 A 19881014

Priority

- JP 3580588 A 19880218
- JP 4833088 A 19880301
- JP 26055787 A 19871015

Abstract (en)

[origin: EP0312090A2] A process of producing a fibrous laminate is described which comprises laminating a thermoplastic resin fiber binder non-woven fabric (A) having a melting point of from 60 to 200 DEG C on the surface of a fiber mat (B) composed of synthetic fibers or natural fibers, said synthetic fibers or natural fibers having a melting point of at least 40 DEG C higher than the melting point of the aforesaid fiber binder non-woven fabric, applying needling to the laminate from the side of the thermoplastic resin fiber binder non-woven fabric (A), whereby the binder fibers of the non-woven fabric (A) and the fibers of the fiber mat (B) are entangled with each other to provide a laminate mat (C), placing a surface decorating material (D) on the surface of the non-woven fabric (A), and heating the laminate to a temperature of not melting the surface decorating material (D) and the fibers of the fiber mat (B) but melting the binder fibers of the non-woven fabric (A) to weld the surface decorating material (D) and the laminate mat (C) in a body.

IPC 1-7

D04H 1/48

IPC 8 full level

D04H 1/48 (2012.01); **D04H 13/00** (2006.01)

CPC (source: EP)

D04H 1/485 (2013.01); **D04H 1/498** (2013.01); **D04H 1/559** (2013.01)

Citation (search report)

- [Y] US 4542060 A 19850917 - YOSHIDA SEIICHI [JP], et al
- [Y] EP 0016377 A1 19801001 - ALKOR GMBH [DE]
- [A] FR 2510476 A1 19830204 - FUENTES RIQUELME PEDRO SEGUNDO [MX]
- [A] GB 1261615 A 19720126 - SCHAEFFLER TEPPICHBODEN GMBH [DE]
- [A] EP 0043390 A1 19820113 - TEIJIN LTD [JP]

Cited by

DE10252295A1; FR2780420A1; CN104108337A; EP0503048A4; US5993586A; US9724852B1; US8012389B2; WO9419524A1; EP0684242B1; WO9602695A1; WO2020169116A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 0312090 A2 19890419; EP 0312090 A3 19900613; EP 0312090 B1 19940216; DE 3887811 D1 19940324; DE 3887811 T2 19940707

DOCDB simple family (application)

EP 88117120 A 19881014; DE 3887811 T 19881014