

Title (en)  
A NATURAL FIBER PRODUCT COATED WITH A THERMOSET BINDER MATERIAL

Publication  
**EP 0464136 A4 19920708 (EN)**

Application  
**EP 90905777 A 19900320**

Priority  
US 32618189 A 19890320

Abstract (en)  
[origin: WO9011170A1] Discontinuous natural fibers have a coating of a thermoset binder. A substantial majority of the fibers, and any fiber bundles in the fibers, are unbonded to one another by the thermoset binder material. One or more solid particulate materials may be adhered to the fibers by the binder material as the binder material dries. The binder material is heat curable and the coated fibers can be mixed with other fibers for subsequent heat curing and used in producing a wide variety of products.

IPC 1-7  
**B27K 3/00**

IPC 8 full level  
**A61F 13/15** (2006.01); **B27N 3/04** (2006.01); **D04H 1/42** (2006.01); **D06M 11/46** (2006.01); **D06M 11/74** (2006.01); **D21H 17/48** (2006.01)

CPC (source: EP US)  
**A61F 13/531** (2013.01 - EP); **D04H 1/407** (2013.01 - EP); **D04H 1/413** (2013.01 - EP); **D04H 1/425** (2013.01 - EP);  
**D04H 1/43828** (2020.05 - EP US); **D04H 1/43835** (2020.05 - EP US); **D06M 11/46** (2013.01 - EP); **D06M 11/74** (2013.01 - EP);  
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**A61F 2013/530343** (2013.01 - EP); **A61F 2013/530496** (2013.01 - EP); **A61F 2013/530569** (2013.01 - EP); **A61F 2013/530583** (2013.01 - EP);  
**A61F 2013/5395** (2013.01 - EP)

Citation (search report)  
• [Y] DE 2023659 A1 19711125  
• [Y] US 2601597 A 19520624 - DANIEL JR JOHN H, et al  
• [A] EP 0247539 A1 19871202 - AIR PROD & CHEM [US]  
• [AD] US 4160059 A 19790703 - SAMEJIMA TADANORI  
• See references of WO 9011170A1

Designated contracting state (EPC)  
AT BE CH DE DK ES FR GB IT LI LU NL SE

DOCDB simple family (publication)  
**WO 9011170 A1 19901004**; AU 5349790 A 19901022; CA 2012526 A1 19900920; EP 0464136 A1 19920108; EP 0464136 A4 19920708;  
JP H04504233 A 19920730

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