

Title (en)  
COMPOSITE MATERIALS AND METHOD OF PREPARATION

Publication  
**EP 0317576 A4 19910703 (EN)**

Application  
**EP 87905828 A 19870811**

Priority  
US 89642386 A 19860813

Abstract (en)  
[origin: WO8801319A1] A method for making a non-woven, dimensionally stable composite sheet comprising a polymeric binder, cellulosic fibers, and glass fibers comprising the following steps (A) - (D) in sequence: (A) forming an aqueous dispersion of: (i) cellulosic fibers in the form of a wood pulp consisting essentially of soft wood fibers of a particular type; and (ii) a water-soluble surfactant comprising a dispersion aid for said glass fibers in an amount sufficient to disperse said glass fibers in said dispersion; (B) adding to said dispersion containing said cellulosic fibers and said surfactant chopped glass fibers in an amount such that the partial consistency of said glass fibers in said dispersion is from about 0.5 to about 3.0 %, said added glass fibers having only residual water content, an average length of from about 0.1 to 0.7 inch and a diameter of about 6  $\mu$  to about 13  $\mu$  ; (C) adding to said dispersion containing said surfactant and said fibers an organic, water-insoluble, film-forming, polymeric binder; and (D) forming from said aqueous dispersion a dried, non-woven dimensionally stable composite sheet comprising from about 5 to about 50 wt.% of said cellulosic fibers and from about 5 to about 25 wt.% of said glass fibers.

IPC 1-7  
**D21H 5/18**

IPC 8 full level  
**D21H 13/40** (2006.01); **D21H 17/33** (2006.01); **D21H 17/53** (2006.01)

CPC (source: EP KR)  
**D21H 13/40** (2013.01 - EP KR)

Citation (search report)  
See references of WO 8801319A1

Cited by  
EP3593697A1

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

DOCDB simple family (publication)  
**WO 8801319 A1 19880225**; DK 199188 A 19880610; DK 199188 D0 19880412; EP 0317576 A1 19890531; EP 0317576 A4 19910703; ES 2004980 A6 19890216; FI 890675 A0 19890213; FI 890675 A 19890213; GR 871230 B 19871211; JP H02500290 A 19900201; KR 880701802 A 19881105; PT 85530 A 19870901; PT 85530 B 19900629

DOCDB simple family (application)  
**US 8701980 W 19870811**; DK 199188 A 19880412; EP 87905828 A 19870811; ES 8702374 A 19870812; FI 890675 A 19890213; GR 870101230 A 19870803; JP 50524287 A 19870811; KR 880700387 A 19880413; PT 8553087 A 19870812