

Title (en)  
CONSOLIDATED FIBROUS STRUCTURE

Title (de)  
VERFESTIGTES FASERGEBILDE

Title (fr)  
STRUCTURE FIBREUSE CONSOLIDÉE

Publication  
**EP 2382343 A1 20111102 (EN)**

Application  
**EP 09796157 A 20091221**

Priority  
• US 2009006624 W 20091221  
• US 36055309 A 20090127  
• US 36057609 A 20090127

Abstract (en)  
[origin: WO2010087811A1] A consolidated fibrous structure including a multiplicity of fibrous layers. The fibers of each fibrous layer contain a core and a skin layer. The core has an exterior surface portion containing polypropylene. The skin layer is disposed on at least a portion of the core and contains a first polymer and a second polymer. At least a portion of the skin layers of the fibers in each fibrous layer are fused to at least a portion of other skin layers of fibers within the same fibrous layer, at least a portion of the skin layers of the fibers of each fibrous layer are fused with at least a portion of the skin layers of the fibers in an adjacent fibrous layer, and the stiffness of the consolidated fibrous structure is at least 1 N-m. A fibrous layer is also described.

IPC 8 full level  
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**B32B 5/022** (2013.01); **B32B 5/024** (2013.01); **B32B 5/026** (2013.01); **B32B 5/08** (2013.01); **B32B 5/22** (2013.01); **B32B 5/26** (2013.01); **D01D 5/426** (2013.01); **D01F 8/06** (2013.01); **D06M 15/227** (2013.01); **B32B 2250/20** (2013.01); **B32B 2255/02** (2013.01); **B32B 2255/26** (2013.01); **B32B 2262/02** (2013.01); **B32B 2262/0253** (2013.01); **B32B 2262/0261** (2013.01); **B32B 2262/0269** (2013.01); **B32B 2262/0276** (2013.01); **B32B 2262/06** (2013.01); **B32B 2262/08** (2013.01); **B32B 2262/101** (2013.01); **B32B 2262/103** (2013.01); **B32B 2262/105** (2013.01); **B32B 2262/106** (2013.01); **B32B 2262/108** (2013.01); **B32B 2262/12** (2013.01); **B32B 2262/14** (2013.01); **B32B 2307/30** (2013.01); **B32B 2307/50** (2013.01); **B32B 2307/54** (2013.01); **B32B 2571/02** (2013.01); **D06M 2101/20** (2013.01)

Citation (search report)  
See references of WO 2010087811A1

Designated contracting state (EPC)  
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**WO 2010087811 A1 20100805**; CA 2744806 A1 20100805; EP 2382343 A1 20111102; IL 212935 A0 20110731; IL 212935 A 20150430

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**US 2009006624 W 20091221**; CA 2744806 A 20091221; EP 09796157 A 20091221; IL 21293511 A 20110517