

Title (en)
Reinforced ceiling panels

Title (de)
Verstärkte Deckenplatte

Title (fr)
Panneaux de plafond renforcés

Publication
EP 0978602 A3 20001018 (EN)

Application
EP 99115279 A 19990802

Priority
US 13115398 A 19980807

Abstract (en)
[origin: EP0978602A2] The disclosure is for laminated reinforced fiber panels constructed of materials which would not be self supporting as individual layers. The panel is constructed with the center core structure (12) being a flexible fiber mat and the two outside reinforcing layers (14,16) adding just sufficient strength to prevent the entire panel from sagging. The reinforcing layers can be scrim, metal foil, metal foil and paper laminate, or mineral board, and they can be embossed or corrugated to add strength without additional material and weight. <IMAGE>

IPC 1-7
E04B 9/04; **B32B 5/26**

IPC 8 full level
E04B 9/04 (2006.01); **E04C 2/296** (2006.01); **E04F 13/08** (2006.01)

CPC (source: EP)
E04B 9/045 (2013.01); **E04B 9/0464** (2013.01); **E04C 2/296** (2013.01); **E04F 13/0875** (2013.01)

Citation (search report)
• [XYA] US 4517236 A 19850514 - MEEKER BRIAN L [US], et al
• [YA] WO 9012934 A1 19901101 - AHLSTROEM ERISTEET OY [FI]
• [YA] FR 2414402 A1 19790810 - POZZI MICHEL [FR]
• [A] FR 2592416 A1 19870703 - FIBRACONSULT MANAGEMENT BERATU [CH]
• [A] EP 0449414 A2 19911002 - SIDERISE LTD [GB]
• [A] EP 0464618 A2 19920108 - LECHNER BARTL OHG [AT]
• [A] US 4642951 A 19870217 - MORTIMER FRANCIS J [CA]
• [A] EP 0085863 A1 19830817 - WILHELMI HOLZWERK [DE]
• [A] BE 893737 A 19821103 - SAGE S P R L

Cited by
EP3362614A4; EP2356283A4; US2018245335A1; RU2596234C2; CN104032890A; FR2859492A1; AT509485B1; EP2710197A4; CN103031898A; DE102016114314A1; US9845596B2; WO2017058461A1; WO03023166A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
EP 0978602 A2 20000209; **EP 0978602 A3 20001018**; CA 2279445 A1 20000207

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