

Title (en)  
GLASS FIBER SEPARATORS FOR BATTERIES

Title (de)  
GLASFASERSEPARATOREN FÜR BATTERIEN

Title (fr)  
SEPARATEURS EN FIBRES DE VERRE POUR ACCUMULATEURS

Publication  
**EP 0913006 A4 20010808 (EN)**

Application  
**EP 97931533 A 19970630**

Priority  
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• US 2115496 P 19960701

Abstract (en)  
[origin: WO9800875A1] A glass fiber separator material is disclosed. The separator is composed of a mass of intermeshed glass fibers substantially all of which have a fiber diameter not greater than about 20  $\mu$ m, and at least 5 percent w/w of which have a fiber diameter less than 1  $\mu$ m, and, distributed through the glass fibers, and from 0.2 percent w/w to 20 percent w/w of cellulose fibrils. The fibrils are from a slurry having a Canadian freeness sufficiently low that the separator material has a tensile strength greater than on otherwise identical separator where glass fibers having an average diameter greater than 1  $\mu$ m replace the cellulose fibrils.

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Citation (search report)  
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• [A] US 4265985 A 19810505 - O'RELL DENNIS D, et al  
• [Y] US 4216280 A 19800805 - IGARASHI HIDEAKI [JP], et al  
• [Y] PATENT ABSTRACTS OF JAPAN vol. 013, no. 254 (E - 772) 13 June 1989 (1989-06-13)  
• [Y] PATENT ABSTRACTS OF JAPAN vol. 013, no. 016 (E - 703) 13 January 1989 (1989-01-13)  
• [A] PATENT ABSTRACTS OF JAPAN vol. 008, no. 181 (E - 261) 21 August 1984 (1984-08-21)  
• [A] PATENT ABSTRACTS OF JAPAN vol. 016, no. 178 (E - 1196) 28 April 1992 (1992-04-28)  
• See references of WO 9800875A1

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**WO 9800875 A1 19980108**; AU 3513997 A 19980121; AU 714243 B2 19991223; BR 9710134 A 19990810; CA 2260005 A1 19980108; CA 2260005 C 20040406; CN 1190857 C 20050223; CN 1224535 A 19990728; CZ 288888 B6 20010912; CZ 436998 A3 19990616; EP 0913006 A1 19990506; EP 0913006 A4 20010808; JP 2000513865 A 20001017; KR 100420052 B1 20040712; KR 20000022372 A 20000425; TW 396652 B 20000701

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