

Title (en)
ANIONIC POLYMER

Title (de)
ANIONISCHES POLYMER

Title (fr)
POLYMERE ANIONIQUE

Publication
EP 0791002 A4 19981007 (EN)

Application
EP 95939920 A 19951113

Priority
• IT TO940892 A 19941110
• US 9514729 W 19951113

Abstract (en)
[origin: WO9615137A1] The invention relates to an anionic polysaccharide having superabsorbent characteristics, its polysaccharide being substituted by sulphate groups and the polysaccharide being cross-linked to a sufficient extent that it remains insoluble in water. The polysaccharide is preferably cellulose. The anionic polysaccharide can be made by a process which comprises (i) reacting a polysaccharide with a pyridine -SO₃ complex in a solvent; followed by (ii) reacting with a cross-linking agent to provide a degree of cross-linking sufficient that the product remains insoluble in water. The sulphated polysaccharides show superabsorbent properties largely independent of pH over a wide range and can be used in applications where it is desired to absorb salt containing aqueous liquids, for example in diapers and catamenials.

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C07H 5/04; **C07H 5/08**; **C08B 3/22**; **C08B 5/14**

IPC 8 full level
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C-Set (source: EP)
1. **A61L 15/28** + **A61L 15/60** + **C08L 1/00**
2. **A61L 15/28** + **C08L 1/00**

Citation (search report)
• [A] US 3737406 A 19730605 - D ALELIO G
• [X] CHEMICAL ABSTRACTS, vol. 120, no. 24, 13 June 1994, Columbus, Ohio, US; abstract no. 301351d, ARAI KENICHIRO ET AL.: "Crosslinked sodium cellulose sulfate as a highly absorbent material." page 136; XP002073006 & SEN'I GAKKAISHI, vol. 49, no. 9, 1993, pages 482 - 485
• [A] PATENT ABSTRACTS OF JAPAN vol. 5, no. 152 (C - 73) 25 September 1981 (1981-09-25) & DATABASE WPI Week 8135, Derwent World Patents Index; AN 63016D
• See also references of WO 9615137A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
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US 9514729 W 19951113; AU 4156496 A 19951113; CA 2204889 A 19951113; EP 95939920 A 19951113; IT TO940892 A 19941110; JP 51625796 A 19951113; KR 19970703147 A 19970510; MX 9703448 A 19970509