

Title (en)
REVERSIBLE CROSS-LINKED HYDROGELS

Title (de)
REVERSIBLE VERNETZTE HYDROGELE

Title (fr)
HYDROGELS RETICULES DE MANIERE REVERSIBLE

Publication
EP 1244709 A1 20021002 (EN)

Application
EP 00989207 A 20001127

Priority
• US 0032360 W 20001127
• US 16763299 P 19991126

Abstract (en)
[origin: WO0140314A1] A hydrogel composition and methods of preparing and using the same are disclosed. The hydrogel composition comprises an oxidized polysaccharide, and a cross-linker having at least two functional cross-linking groups. The cross-linker reversibly cross-links the polysaccharide and is provided in an amount to provide dangling cross-linkers. The method of preparing a hydrogel comprises the steps of providing an oxidized polysaccharide, and providing a cross-linker having at least two functional cross-linking groups. The cross-linker is mixed with the polysaccharide at a concentration of the cross-linker sufficient to form a hydrogel wherein the cross-linker reversibly cross-links the polysaccharide and has dangling cross-linkers. The hydrogels are useful, for example, for tissue engineering, cell transplantation and drug delivery applications.

IPC 1-7
C08B 37/02; **C08B 37/04**; **C08L 5/04**; **A61F 2/02**

IPC 8 full level
A61L 15/16 (2006.01); **A61L 26/00** (2006.01); **A61L 27/00** (2006.01); **A61L 27/20** (2006.01); **C08J 3/24** (2006.01); **C08K 5/00** (2006.01); **C08L 5/04** (2006.01); **C08L 101/00** (2006.01)

CPC (source: EP KR)
A61L 27/20 (2013.01 - EP); **C08B 31/00** (2013.01 - KR); **C08B 37/00** (2013.01 - KR); **C08B 37/0084** (2013.01 - EP); **C08J 3/24** (2013.01 - EP); **C08L 5/04** (2013.01 - EP); **C08J 2300/14** (2013.01 - EP)

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 0140314 A1 20010607; **WO 0140314 A9 20020815**; AU 2574701 A 20010612; CA 2392419 A1 20010607; EP 1244709 A1 20021002; EP 1244709 A4 20030326; JP 2003517049 A 20030520; KR 20020080339 A 20021023; NO 20022454 D0 20020524; NO 20022454 L 20020709

DOCDB simple family (application)
US 0032360 W 20001127; AU 2574701 A 20001127; CA 2392419 A 20001127; EP 00989207 A 20001127; JP 2001541068 A 20001127; KR 20027006722 A 20020525; NO 20022454 A 20020524