

Title (en)  
IMPROVED HYDROGEL FOR TISSUE ENGINEERING

Title (de)  
VERBESSERTES HYDROGEL FÜR DIE GEWEBETECHNOLOGIE

Title (fr)  
HYDROGEL AMELIORE POUR LA CREATION DE TISSU

Publication  
**EP 0944403 A2 19990929 (EN)**

Application  
**EP 97953182 A 19971210**

Priority  

- US 9722859 W 19971210
- US 76273396 A 19961210
- US 5108497 P 19970627
- US 5955897 P 19970919

Abstract (en)  
[origin: WO9825653A2] This invention provides compositions for use in implanting into an animal comprising a biodegradable, biocompatible polymer which forms a hydrogel upon cross-linking. In a preferred mode, the polymer is cross-linked by multivalent ions; more preferably, a soluble salt of a multivalent ion and a sparingly soluble salt of a multivalent ion, these components being combined into a mixture which forms a partially hardened, injectable hydrogel, the consistency of the mixture being suitable for implanting the partially hardened hydrogel mixture into the animal, where the implanted, partially hardened hydrogel forms in situ a fully hardened hydrogel. Preferably, the mixture also contains a biocompatible sequestrant which competes with the biocompatible polymer for binding of the multivalent cross-linking ion. The composition may or may not contain living cells. The invention also provides methods for implanting the composition in an animal, optionally as an implant containing living cells.

IPC 1-7  
**A61L 27/00**

IPC 8 full level  
**A61L 27/00** (2006.01); **A61L 27/20** (2006.01); **A61L 27/38** (2006.01); **A61L 27/52** (2006.01); **A61L 31/14** (2006.01)

CPC (source: EP)  
**A61L 27/20** (2013.01); **A61L 27/38** (2013.01); **A61L 27/52** (2013.01); **A61L 31/145** (2013.01)

Citation (search report)  
See references of WO 9825653A2

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

DOCDB simple family (publication)  
**WO 9825653 A2 19980618**; **WO 9825653 A3 19981015**; AU 5698698 A 19980703; AU 742316 B2 20011220; CA 2274661 A1 19980618; EP 0944403 A2 19990929; JP 2001505809 A 20010508; JP 4002299 B2 20071031

DOCDB simple family (application)  
**US 9722859 W 19971210**; AU 5698698 A 19971210; CA 2274661 A 19971210; EP 97953182 A 19971210; JP 52699898 A 19971210