Title (en)

IMPROVED HYDROGEL FOR TISSUE ENGINEERING

Title (de)

VERBESSERTES HYDROGEL FÜR DIE GEWEBETECHNOLOGIE

Title (fr)

HYDROGEL AMELIORE POUR CHIRURGIE REPARATRICE

Publication

EP 1015042 A1 20000705 (EN)

Application

EP 98948313 A 19980918

Priority

- US 9819417 W 19980918
- US 5955897 P 19970919
- US 9722859 W 19971210

Abstract (en)

[origin: WO9915211A1] 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 (main, further and additional classification)

A61L 27/00; A61L 31/00

IPC 8 full level (invention and additional information)

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CPC (invention and additional information)

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Combination set (CPC)

A61L 27/20 + **C08L 5/04**

Citation (search report)

See references of WO 9915211A1

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DOCDB simple family

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