

Title (en)  
SELF-SUPPORTING, SHAPED, THREE-DIMENSIONAL BIOPOLYMERIC MATERIALS AND METHODS

Title (de)  
SELBSTTRAGENDE, GEFORMTE, DREIDIMENSIONALE BIOPOLYMER MATERIALIEN SOWIE VERFAHREN

Title (fr)  
MATERIAUX BIOPOLYMERES EN TROIS DIMENSIONS, CONFORMES ET AUTOPORTANTS ET PROCEDES

Publication  
**EP 1180986 A4 20040303 (EN)**

Application  
**EP 00935915 A 20000512**

Priority  
• US 0012886 W 20000512  
• US 13462499 P 19990518

Abstract (en)  
[origin: WO0070018A2] Self-supporting, shaped, three-dimensional cross-linked proteinaceous biopolymeric materials that may be implanted in vivo, and methods of making such materials are disclosed. The biopolymeric materials most preferably include reinforcing media, such as biocompatible fibrous or particulate materials. In use, the preformed, shaped biopolymeric materials may be applied to tissue in need of repair and then sealed around its edges with a liquid bioadhesive. In such a manner, repaired tissue which is capable of withstanding physiological pressures may be provided.

IPC 1-7  
**A61F 2/20**; C08H 1/00; C08K 3/26; C08K 3/32; C08K 3/40; A61L 27/48

IPC 8 full level  
**A61L 27/00** (2006.01); **A61F 2/02** (2006.01); **A61F 2/04** (2013.01); **A61L 27/22** (2006.01); **A61L 27/48** (2006.01); **A61L 27/56** (2006.01); **A61L 33/00** (2006.01); **C08J 5/04** (2006.01); **D06M 15/15** (2006.01); **D06N 3/00** (2006.01); **D06N 7/00** (2006.01)

CPC (source: EP)  
**A61L 27/22** (2013.01); **A61L 27/48** (2013.01); **A61L 27/56** (2013.01); **D06M 15/15** (2013.01); **D06N 3/0097** (2013.01)

Citation (search report)  
• [X] WO 9401508 A1 19940120 - KOWANKO NICHOLAS [US]  
• [X] US 4247406 A 19810127 - WIDDER KENNETH J, et al  
• [X] WO 9909149 A1 19990225 - MASSACHUSETTS INST TECHNOLOGY [US], et al  
• [X] EP 0621044 A2 19941026 - SANGI KK [JP]  
• [X] US 4342636 A 19820803 - CHANG ENG-PI, et al  
• [X] EP 0349505 A2 19900103 - ASTRA MEDITEC AB [SE]  
• [A] DATABASE WPI Section Ch Week 198520, Derwent World Patents Index; Class A82, AN 1985-120466, XP002217022, ANONYMOUS: "Modification of flexible fabrics, leather and webs - by impregnation with aq. plastics dispersion and heat coagulation of dispersed plastic" & RESEARCH DISCLOSURE, vol. 252, no. 029, 10 April 1985 (1985-04-10), Emsworth, GB  
• See references of WO 0070018A2

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

DOCDB simple family (publication)  
**WO 0070018 A2 20001123**; **WO 0070018 A3 20010830**; AU 5130200 A 20001205; AU 770316 B2 20040219; CA 2372276 A1 20001123; CA 2372276 C 20120110; EP 1180986 A2 20020227; EP 1180986 A4 20040303; EP 2311407 A1 20110420; JP 2002543950 A 20021224

DOCDB simple family (application)  
**US 0012886 W 20000512**; AU 5130200 A 20000512; CA 2372276 A 20000512; EP 00935915 A 20000512; EP 10181818 A 20000512; JP 2000618424 A 20000512