Title (en)

RESORBABLE, MACRO-POROUS, NON-COLLAPSING AND FLEXIBLE MEMBRANE BARRIER FOR SKELETAL REPAIR AND REGENERATION

Title (de)

RESORBIERBARE, MAKROPORÖSE, NICHT ZUSAMMENFALTBARE UND FLEXIBLE MEMBRANBARRIERE ZUM AUSBESSERN UND WIEDERHERSTELLEN VON KNOCHEN

Title (fr)

BARRIERE DE MEMBRANE SUSCEPTIBLE DE SE RESORBER, MACROPOREUSE, NE PRESENTANT PAS DE RISQUE D'AFFAISSEMENT ET SOUPLE DESTINE A LA REPARATION ET A LA REGENERATION DU SQUELETTE

Publication

EP 1282383 A2 20030212 (EN)

Application

EP 99905458 A 19990122

Priority

- US 9901403 W 19990122
- US 7240198 P 19980123
- US 7520498 P 19980218
- US 9606998 P 19980811

Abstract (en)

[origin: CA2318865A1] A resorbable, flexible implant in the form of a continuous macro-porous sheet is disclosed. The implant is adapted to protect biological tissue defects, especially bone defects in the mammalian skeletal system, from the interposition of adjacent soft tissues during in vivo repair. The membrane has pores with diameters from 20 microns to 3000 microns. This porosity is such that vasculature and connective tissue cells derived from the adjacent soft tissues including the periosteum can proliferate through the membrane into the bone defect. The thickness of the sheet is such that the sheet has both sufficient flexibility to allow the sheet to be shaped to conform to the configuration of a skeletal region to be repaired, and sufficient tensile strength to allow the sheet to be so shaped without damage to the sheet. The sheet provides enough inherent mechanical strength to withstand pressure from adjacent musculature an does not collapse.

IPC 1-7

A61B 17/56

IPC 8 full level

A61B 17/58 (2006.01); **A61B 17/56** (2006.01); **A61B 17/60** (2006.01); **A61B 17/64** (2006.01); **A61B 17/80** (2006.01); **A61F 2/00** (2006.01); **A61F 2/02** (2006.01); **A61F 2/28** (2006.01); **A61F 2/46** (2006.01); **A61L 27/00** (2006.01); **A61L 27/56** (2006.01); **A61L 31/00** (2006.01); **A61L 31/14** (2006.01); **A61L 31/16** (2006.01); **A61L 31/18** (2006.01); **C08L 101/16** (2006.01); A61B 17/00 (2006.01); A61B 17/06 (2006.01); A61B 17/064 (2006.01); A61B 17/08 (2006.01); A61B 17/68 (2006.01); A61B 17/72 (2006.01); A61B 17/86 (2006.01); A61C 8/00 (2006.01); A61F 2/30 (2006.01)

CPC (source: EP US)

A61B 17/688 (2013.01 - EP); **A61B 17/8085** (2013.01 - EP); **A61F 2/0063** (2013.01 - EP); **A61F 2/2803** (2013.01 - EP); **A61F 2/2846** (2013.01 - EP); **A61F 2/2875** (2013.01 - EP); **A61F 2/468** (2013.01 - EP); **A61L 27/54** (2013.01 - EP US); **A61L 27/56** (2013.01 - EP); **A61L 27/58** (2013.01 - EP); **A61L 31/146** (2013.01 - EP); **A61L 31/148** (2013.01 - EP); **A61L 31/16** (2013.01 - EP); A61B 17/06166 (2013.01 - EP); A61B 17/0642 (2013.01 - EP); A61B 17/08 (2013.01 - EP); A61B 17/64 (2013.01 - EP); A61B 17/68 (2013.01 - EP); A61B 17/72 (2013.01 - EP); A61B 17/80 (2013.01 - EP); A61B 17/8071 (2013.01 - EP); A61B 17/86 (2013.01 - EP); A61B 2017/00004 (2013.01 - EP); A61B 2017/0647 (2013.01 - EP); A61B 2017/0648 (2013.01 - EP); A61C 8/0006 (2013.01 - EP); A61F 2/28 (2013.01 - EP); A61F 2002/2817 (2013.01 - EP); A61F 2002/2835 (2013.01 - EP); A61F 2002/2878 (2013.01 - EP); A61F 2002/2889 (2013.01 - EP); A61F 2002/30062 (2013.01 - EP); A61F 2002/30235 (2013.01 - EP); A61F 2002/30428 (2013.01 - EP); A61F 2002/30785 (2013.01 - EP); A61F 2002/30787 (2013.01 - EP); A61F 2002/4649 (2013.01 - EP); A61F 2210/0004 (2013.01 - EP); A61F 2220/0025 (2013.01 - EP); A61F 2230/0069 (2013.01 - EP); A61L 2300/40 (2013.01 - EP); A61L 2300/412 (2013.01 - EP); A61L 2300/414 (2013.01 - EP)

Designated contracting state (EPC)

AT CH DE DK ES FI FR GB GR IE IT LI NL PT SE

DOCDB simple family (publication)

AU 2561299 A 19990809; AU 752357 B2 20020919; CA 2318865 A1 19990729; EP 1282383 A2 20030212; EP 1282383 A4 20070808; JP 2003517326 A 20030527

DOCDB simple family (application)

AU 2561299 A 19990122; CA 2318865 A 19990122; EP 99905458 A 19990122; JP 2000528230 A 19990122