

Title (en)  
COVERING MEMBRANE, MOULDED BODIES PRODUCED THEREFROM AND PROCESS FOR THE PRODUCTION THEREOF

Title (de)  
ABDECKMEMBRAN, DARAUS HERGESTELLTE FORMKÖRPER UND VERFAHREN ZU DEREN HERTELLUNG

Title (fr)  
MEMBRANE DE RECOUVREMENT, CORPS MOULES PRODUITS A PARTIR DE CETTE MEMBRANE, ET PROCEDE DE PRODUCTION DE CELLE-CI

Publication  
**EP 0885022 A1 19981223 (DE)**

Application  
**EP 97922809 A 19970204**

Priority  
• DE 9700233 W 19970204  
• DE 19608250 A 19960304

Abstract (en)  
[origin: DE19654884A1] A structure comprises a membrane for tissue or bone regeneration. The membrane contains at least three layers; the two outer layers are made of a natural material and the inner layer(s) are made from one or more plastic materials. The plastic material is preferably a biodegradable thermoplastic based on poly- alpha -hydroxy acids (e.g. polytrimethylene carbonate, polydioxanone, polyglycolide, polylactide or poly(L-lactide-coglycolide), or poly orthoesters and/or polycaprolactones (e.g. polyhydroxybutyrate or polyhydroxybutyrate-co-hydroxyvalerate). More specifically, the plastic is poly(D,L-lactide) or poly(L-lactide-co-D,L-lactide) where the ratio of L-lactide to D,L-lactide ranges from 40:60 to 80:20. The inner plastic layer has a cell-occlusive non-porous structure. The natural outer layers contain collagen (type I and/or type IV) and may have a porous, smooth or fibrous structure. The membrane has a collagen rim 5-10 mm thick, and is moulded into a three dimensional shape. The porosity and thickness of one of the outer layers is different from that of the other; the pores in the layer nearest to the bone defect are 1-5 mm<3>. This layer may also contain autological bone material.

IPC 1-7  
**A61L 31/00**

IPC 8 full level  
**A61L 27/00** (2006.01); **A61L 31/00** (2006.01); **A61L 31/04** (2006.01); **A61L 31/06** (2006.01); **A61L 31/10** (2006.01); **A61L 31/14** (2006.01); **A61L 31/16** (2006.01)

CPC (source: EP)  
**A61F 2/2846** (2013.01); **A61L 31/044** (2013.01); **A61L 31/06** (2013.01); **A61L 31/10** (2013.01); **A61L 31/148** (2013.01); **A61L 31/16** (2013.01); **A61F 2/3094** (2013.01); **A61F 2002/30062** (2013.01); **A61F 2002/30065** (2013.01); **A61F 2002/3092** (2013.01); **A61F 2002/30971** (2013.01); **A61F 2310/00371** (2013.01)

Citation (search report)  
See references of WO 9732616A1

Designated contracting state (EPC)  
AT CH DE ES FR GB IT LI SE

DOCDB simple family (publication)  
**DE 19654884 A1 19970911**; **DE 19654884 C2 19990729**; AU 2885097 A 19970922; BR 9707903 A 19990727; CA 2248327 A1 19970912; CN 1212632 A 19990331; EP 0885022 A1 19981223; JP 2000507847 A 20000627; WO 9732616 A1 19970912

DOCDB simple family (application)  
**DE 19654884 A 19960304**; AU 2885097 A 19970204; BR 9707903 A 19970204; CA 2248327 A 19970204; CN 97192772 A 19970204; DE 9700233 W 19970204; EP 97922809 A 19970204; JP 53131697 A 19970204