

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
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Application
EP 97922809 A 19970204

Priority
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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.

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