

Title (en)
A BIOCOMPATIBLE, BIODEGRADABLE AND BIORESORBABLE ADHESION MEMBRANE INCLUDING HYALURONIC ACID / CHITOSAN / CARBOXYMETHYL CELLULOSE AND PRODUCTION METHOD

Title (de)
BIOKOMPATIBLE, BIOLOGISCH ABBAUBARE UND BIORESORBIERBARE HAFTMEMBRAN MIT HYALURONSÄURE/CHITOSAN/ CARBOXYMETHYLCELLULOSE UND HERSTELLUNGSVERFAHREN

Title (fr)
MEMBRANE D'ADHÉRENCE BIOCOMPATIBLE, BIODÉGRADABLE ET BIORÉSORBABLE COMPRENANT DE L'ACIDE HYALURONIQUE/ CHITOSANE/CARBOXYMÉTHYLCELLULOSE ET PROCÉDÉ DE PRODUCTION

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Application
EP 20801738 A 20200430

Priority

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- TR 2020050358 W 20200430

Abstract (en)
[origin: WO202226587A1] The present invention relates to biocompatible, biodegradable and bioabsorbable anti-bleeding adhesion barrier membranes that are used to prevent tissue and organ adhesions after surgery and contain hyaluronic acid / chitosan / carboxymethyl cellulose. The aim of the invention is to solve the agglomeration problem by converting a part of the amine group in the chitosan structure to carboxylic acid by transforming a part of the amine group in the chitosan structure into carboxylic acid in order to prevent agglomeration due to the mixture of positively charged chitosan and negatively charged hyaluronic acid and carboxymethyl cellulose, which are different ionic charged polysaccharides. Also, the aim of this invention is the use of triple combination in the same formulation without agglomeration and to provide adhesion barrier membranes.

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C08B 15/00 (2006.01); **A61L 31/04** (2006.01); **C08B 37/08** (2006.01); **C08L 1/28** (2006.01); **C08L 5/08** (2006.01)

CPC (source: EP)
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C-Set (source: EP)

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4. **C08L 1/286** + **C08L 5/08** + **C08L 5/08**

Citation (search report)

- [I] US 4619995 A 19861028 - HAYES ERNEST R [CA]
- [XI] ZHAO XI HONG ET AL: "Preparation and Properties of Sodium Carboxymethyl Cellulose-Hyaluronic Acid-Carboxymethyl Chitosan Blend", APPLIED MECHANICS AND MATERIALS, vol. 20-23, 1 January 2010 (2010-01-01), pages 1157 - 1161, XP055983012, DOI: 10.4028/www.scientific.net/AMM.20-23.1157
- See also references of WO 2020226587A1

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WO 2020226587 A1 20201112; EP 3962546 A1 20220309; EP 3962546 A4 20230104; TR 201906601 A2 20201123

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