

Title (en)  
COMPOSITION, PREPARATION, AND USE OF DENSE CHITOSAN MEMBRANE MATERIALS

Title (de)  
ZUSAMMENSETZUNG, HERSTELLUNG UND VERWENDUNG VON DICHTEN CHITOSANMEMBRANMATERIALIEN

Title (fr)  
COMPOSITION, PRÉPARATION, ET UTILISATION DE MATÉRIAUX DE MEMBRANE DE CHITOSAN DENSE

Publication  
**EP 2793908 A4 20150819 (EN)**

Application  
**EP 12859619 A 20121219**

Priority  
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Abstract (en)  
[origin: WO2013096448A1] A composition of exceptionally dense chitosan and a novel method for producing the dense chitosan structure have been described. The novel production method employs coincident compression and vacuum on a neutralized chitosan polymer that results in an exceptionally dense chitosan film or membrane material. The dense chitosan film or membrane composition possesses multiple physical and clinically appealing qualities for a variety of medical applications on or in animals, mammals, or humans.

IPC 8 full level  
**A61K 31/722** (2006.01); **C08J 3/075** (2006.01); **C08L 5/08** (2006.01)

CPC (source: EP)  
**A61K 31/722** (2013.01); **A61P 7/04** (2017.12); **A61P 17/02** (2017.12); **A61P 31/04** (2017.12); **A61P 31/10** (2017.12); **C08B 37/003** (2013.01); **C08J 3/075** (2013.01); **C08L 5/08** (2013.01); **C08J 2305/08** (2013.01)

Citation (search report)  
• [X] GUPTA B, SAXENA S: "Chitosan-polyethylene glycol coated cotton membranes for wound dressings", INDIAN JOURNAL OF FIBRE & TEXTILE RESEARCH, vol. 36, no. 3, September 2001 (2001-09-01) - September 2001 (2001-09-01), India, pages 272 - 280, XP002742079, ISSN: 0971-0426, Retrieved from the Internet <URL:http://nopr.niscair.res.in/bitstream/123456789/12651/1/IJFTR%2036%283%29%20272-280.pdf> [retrieved on 20150709]  
• [X] HUANG-SHAN TSAI ET AL: "Properties of hydrophilic chitosan network membranes by introducing binary crosslink agents", POLYMER BULLETIN, SPRINGER, BERLIN, DE, vol. 60, no. 1, 9 October 2007 (2007-10-09), pages 103 - 113, XP019587575, ISSN: 1436-2449  
• [X] JANG MOOK WON ET AL: "Plasticization of chitosan membrane for pervaporation of aqueous ethanol solution", KOREAN JOURNAL OF CHEMICAL ENGINEERING, vol. 13, no. 3, 1996 - May 1996 (1996-05-01), pages 324 - 327, XP002742080, ISSN: 0256-1115, Retrieved from the Internet <URL:http://asiatec2013.spekorea.org/PDF/KJChE/KC13/KC13-3-0324.pdf> [retrieved on 20150710], DOI: 10.1007/BF02705957  
• See references of WO 2013096448A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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