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(54) Title: HYDROGEL HYBRID MATERIAL, METHOD OF ITS PREPARATION AND APPLICATION

(57) Abstract: A biocompatible hydrogel hybrid material useful in regenerative medicine, in particular in reconstruction of bone tissue and a method of its preparation is disclosed,



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
INV. A61L27/26 A61L27/44 A61L27/52
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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
A61L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GILARSKA ADRIANA ET AL: "Collagen/chitosan/hyaluronic acid - based injectable hydrogels for tissue engineering applications - design, physicochemical and biological characterization", COLLOIDS AND SURFACES. B, BIOINTERFACES, ELSEVIER, AMSTERDAM, NL, vol. 170, 4 June 2018 (2018-06-04), pages 152-162, XP085458741, ISSN: 0927-7765, DOI: 10.1016/J.COLSURFB.2018.06.004 1 (introduction) and 2.2.1 (hydrogel scaffold preparation) ----- -/--	6-9



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INTERNATIONAL SEARCH REPORT

International application No
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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	CN 102 188 746 B (BEIJING YIERKANG BIOENGINEERING DEV CT) 14 August 2013 (2013-08-14) claims 1-2 -----	1-9
A	JOANNA FILIPOWSKA ET AL: "In vitro osteogenic potential of collagen/chitosan-based hydrogels-silica particles hybrids in human bone marrow-derived mesenchymal stromal cell cultures", INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol. 113, 1 July 2018 (2018-07-01), pages 692-700, XP055726318, NL ISSN: 0141-8130, DOI: 10.1016/j.ijbiomac.2018.02.161 1. (introduction) and 2.1 (preparation of the silica particles, hydrogels and the hybrid materials) -----	6-9
A	SIONKOWSKA ALINA ET AL: "Preparation and characterization of composites based on the blends of collagen, chitosan and hyaluronic acid with nano-hydroxyapatite", INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, ELSEVIER BV, NL, vol. 102, 5 April 2017 (2017-04-05), pages 658-666, XP085124504, ISSN: 0141-8130, DOI: 10.1016/J.IJBIOMAC.2017.03.196 1. (introduction) and 2.1. (sample preparation) -----	6-9
A	KANG KYOUNG-KU ET AL: "Synthesis of silica nanoparticles using biomimetic mineralization with polyallylamine hydrochloride", JOURNAL OF COLLOID AND INTERFACE SCIENCE, ACADEMIC PRESS, INC, US, vol. 507, 31 July 2017 (2017-07-31), pages 145-153, XP085184949, ISSN: 0021-9797, DOI: 10.1016/J.JCIS.2017.07.115 4. conclusion -----	6-9

INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
CN 102188746	B	14-08-2013	NONE
