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(54) Title: METHOD OF PREPARATION OF HIGHLY SUBSTITUTED HYALURONIC ACID AMIDES

(57) Abstract: The invention relates to the method of preparation of highly substituted hyaluronic acid amides with a controllable degree of substitution, which are prepared in a polar aprotic environment from an acidic form of hyaluronic acid in the presence of ethylchloroformiate, by means of a primary amine.



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INTERNATIONAL SEARCH REPORT

International application No  
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A. CLASSIFICATION OF SUBJECT MATTER  
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ADD.  
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)  
C08B  
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 practical, search terms used)  
EPO-Internal, BIOSIS, EMBASE, MEDLINE, 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,P	GLORIA HUERTA-ANGELES ET AL: "Synthesis of highly substituted amide hyaluronan derivatives with tailored degree of substitution and their crosslinking via click chemistry", CARBOHYDRATE POLYMERS, vol. 84, no. 4, 1 April 2011 (2011-04-01), pages 1293-1300, XP55020120, ISSN: 0144-8617, DOI: 10.1016/j.carbpol.2011.01.021 the whole document	1-11
Y	EP 1 790 665 A1 (CHUGAI PHARMACEUTICAL CO LTD [JP]) 30 May 2007 (2007-05-30) paragraph [0017] - paragraph [0018]	1-11
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See patent family annex.

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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.
Y	CARLSON A ET AL: "Separation of carboxylic acid enantiomers by gas chromatography after rapid derivatization with (R)- or (S)-1-phenylethylamine after activation by ethyl chloroformate", JOURNAL OF CHROMATOGRAPHY, ELSEVIER SCIENCE PUBLISHERS B.V, NL, vol. 508, 1 January 1990 (1990-01-01), pages 333-339, XP026550871, ISSN: 0021-9673, DOI: 10.1016/S0021-9673(00)91275-5 [retrieved on 1990-01-01] figure 2	1-11
A	----- WO 2008/031525 A1 (FIDIA FARMACEUTICI [IT]; CRESCENZI VITTORIO [IT]; DI MEO CHIARA [IT];) 20 March 2008 (2008-03-20) the whole document -----	1-11

# INTERNATIONAL SEARCH REPORT

Information on patent family members

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