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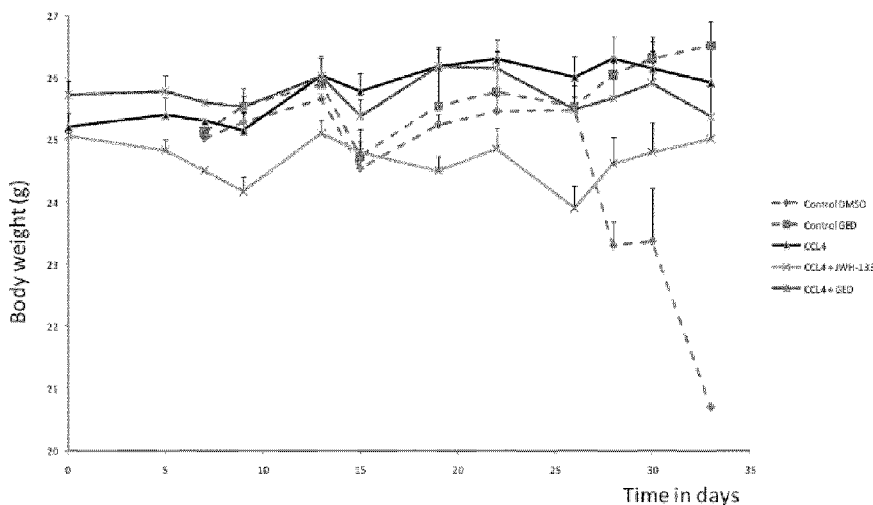
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Previous Correction:
see Notice of 3 October 2013

(54) Title: METHODS OF TREATING FIBROSIS

FIG. 1



(57) Abstract: The present disclosure is directed in part to methods of treating fibrosis, e.g., hepatic fibrosis and/or intestinal fibrosis, comprising administering to a patient in need thereof an effective amount of a disclosed compound.



INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
INV. A61K31/196 A61K31/343 A61K31/357 A61P1/04
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)
A61K

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, BIOSIS, CHEM ABS Data, 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.
Y	JOHNSON LAURA A ET AL: "Intestinal fibrosis is reduced by early elimination of inflammation in a mouse model of IBD: impact of a "Top-Down" approach to intestinal fibrosis in mice.", INFLAMMATORY BOWEL DISEASES MAR 2012, vol. 18, no. 3, 14 July 2011 (2011-07-14), pages 460-471, XP002710469, ISSN: 1536-4844 abstract; figure 5	1-17
Y	WO 2008/104557 A1 (GIULIANI INT LTD [IE]; BARONI SERGIO [IT]; DESREUMAUX PIERRE [FR]; BEL) 4 September 2008 (2008-09-04) page 10, line 12 - page 13, line 19; page 19, line 1-24; page 21, line 1-3; ----- -/--	1-17

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Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer Borst, Markus

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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	WO 2007/010514 A2 (GIULIANI INT LTD [IE]; NACCARI GIANCARLO [IT]; BARONI SERGIO [IT]) 25 January 2007 (2007-01-25) [0008]; [0054]; [0076] -----	1-17
Y	WO 2010/091892 A2 (GIULIANI INT LTD [IE]; BARONI SERGIO [IT]; BELLINIA SALVATORE [IT]; V) 19 August 2010 (2010-08-19) [0007]; [0070]-[0071]; [0075] -----	1-17

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/EP2013/052617

Patent document cited in search report	Publication date	Patent family member(s)	Publication date	
WO 2008104557	A1	04-09-2008	AR 065525 A1	10-06-2009
			AT 553759 T	15-05-2012
			AU 2008220762 A1	04-09-2008
			CA 2678159 A1	04-09-2008
			DK 2131829 T3	29-05-2012
			EP 2131829 A1	16-12-2009
			ES 2384195 T3	02-07-2012
			HR P20120473 T1	31-07-2012
			IE 20070129 A1	24-12-2008
			JP 2010520166 A	10-06-2010
			PT 2131829 E	20-06-2012
			RS 52251 B	31-10-2012
			SI 2131829 T1	28-09-2012
			US 2011152225 A1	23-06-2011
WO 2008104557 A1	04-09-2008			
WO 2007010514	A2	25-01-2007	AU 2006271163 A1	25-01-2007
			BR PI0613398 A2	11-01-2011
			CA 2615978 A1	25-01-2007
			CN 101243043 A	13-08-2008
			EP 1910275 A2	16-04-2008
			JP 5193862 B2	08-05-2013
			JP 2009502775 A	29-01-2009
			NZ 566044 A	29-06-2012
			US 2009118357 A1	07-05-2009
			US 2012316230 A1	13-12-2012
			WO 2007010514 A2	25-01-2007
WO 2010091892	A2	19-08-2010	AR 080596 A1	25-04-2012
			AU 2010213093 A1	08-09-2011
			AU 2010213095 A1	08-09-2011
			CA 2752623 A1	19-08-2010
			CA 2752626 A1	19-08-2010
			CN 102316931 A	11-01-2012
			CN 102316932 A	11-01-2012
			EA 201171062 A1	30-01-2012
			EA 201171063 A1	30-01-2012
			EP 2396081 A2	21-12-2011
			EP 2396082 A2	21-12-2011
			JP 2012517968 A	09-08-2012
			JP 2012517969 A	09-08-2012
			KR 20110120945 A	04-11-2011
			KR 20110120946 A	04-11-2011
			US 2012053244 A1	01-03-2012
			US 2012053245 A1	01-03-2012
WO 2010091892 A2	19-08-2010			
WO 2010091894 A2	19-08-2010			