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(54) Title: COMPOSITIONS INCLUDING LEUKOTRIENE ANTAGONISTS AND NSAIDS AND METHODS OF USING THE SAME

(57) Abstract: Pharmaceutical compositions containing non-steroidal anti-inflammatory drugs (NSAIDs) and modified NSAIDs and leukotriene antagonists and methods for using such pharmaceutical compositions are provided herein. In a preferred embodiment naproxene 2- (methanesulfonyl) -ethyl ester is used in combination with Zileuton.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER				
INV. A61K31/192 A61P19/02	A61K31/216 A61P25/06	A61K31/381 A61K45/06 A61P29/00		
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 A61P				
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, EMBASE, BIOSIS, CHEM ABS Data, 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	<p>AWNI W M ET AL: "The pharmacokinetic and pharmacodynamic interactions between the 5-lipoxygenase inhibitor zileuton and the cyclo-oxygenase inhibitor naproxen in human volunteers." CLINICAL PHARMACOKINETICS 1995, vol. 29 Suppl 2, 1995, pages 112-124, XP008100566 ISSN: 0312-5963 page 113, left-hand column, paragraph 1 - page 114, left-hand column, paragraph 1 page 121, left-hand column, paragraph 1 page 122, left-hand column, paragraph 1 - page 123, left-hand column, paragraph 1 page 123, left-hand column, last paragraph page 123, right-hand column, last paragraph figures; tables</p> <p style="text-align: center;">----- -/--</p>	1-20		
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.				
<p>* Special categories of cited documents:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none; vertical-align: top;"> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier document but published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p> </td> <td style="width: 50%; border: none; vertical-align: top;"> <p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</p> <p>"&" document member of the same patent family</p> </td> </tr> </table>			<p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier document but published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p>	<p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</p> <p>"&" document member of the same patent family</p>
<p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier document but published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p>	<p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</p> <p>"&" document member of the same patent family</p>			
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INTERNATIONAL SEARCH REPORT

International application No
PCT/US2008/070401

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>NICKERSON-NUTTER C L ET AL: "THE EFFECTS OF LEUKOTRIENE SYNTHESIS INHIBITORS IN MODELS OF ACUTE AND CHRONIC INFLAMMATION" ARTHRITIS AND RHEUMATISM, LIPPINCOTT, PHILADELPHIA, US, vol. 39, no. 3, 1 March 1996 (1996-03-01), pages 515-521, XP000984641 ISSN: 0004-3591 page 515, right-hand column, paragraph 2 page 516, left-hand column, paragraph 2 - right-hand column, paragraph 1 page 517, left-hand column, paragraph 3 page 518, left-hand column, paragraph 2 - page 519, left-hand column, paragraph 1 page 520, left-hand column, paragraph 3 - right-hand column, last paragraph figures 1,2; tables 1-3</p>	1,2, 5-11, 13-16,19
Y	<p>BISHNOI MAHENDRA ET AL: "Potentiation of antinociceptive effect of NSAIDs by a specific lipooxygenase inhibitor, acetyl 11-keto-beta boswellic acid." INDIAN JOURNAL OF EXPERIMENTAL BIOLOGY FEB 2006, vol. 44, no. 2, February 2006 (2006-02), pages 128-132, XP008100578 ISSN: 0019-5189 page 128, left-hand column, paragraph 2 - right-hand column, paragraph 2 page 129, left-hand column, last paragraph - page 130, right-hand column, paragraph 1 page 131, left-hand column, paragraph 3 - page 132, left-hand column, paragraph 1 tables</p>	1-3, 5-11, 13-17,19
Y	<p>US 6 355 666 B1 (LAI CHING-SAN [US] ET AL) 12 March 2002 (2002-03-12) cited in the application column 2, line 31 - line 40 column 5, line 60 - column 6, line 24 column 6, line 25 - line 33 column 23, line 50 - line 52 column 24, line 67 - column 25, line 3 examples 30-33 compound 50</p>	1-20
A	<p>US 2004/024057 A1 (EARL RICHARD A [US] ET AL EARL RICHARD A [US] ET AL) 5 February 2004 (2004-02-05) paragraphs [0006] - [0012], [0333] - [0336], [0352] - [0354], [0356], [0378]; claims 1,4,17,29,39</p>	

INTERNATIONAL SEARCH REPORT

information on patent family members

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US 6355666	B1	12-03-2002	
		KR 20080071628 A	04-08-2008
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