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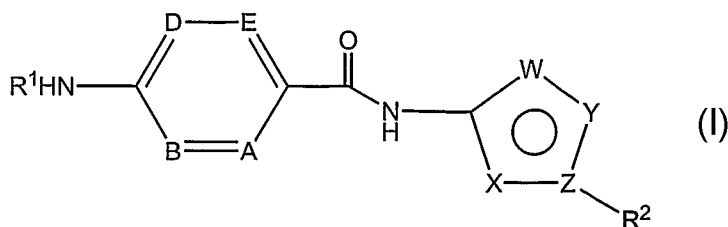
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(54) Title: TROMBOPOIETIN RECEPTOR AGONISTS

(57) Abstract: A compound of the formula (I) useful as promoters of thrombopoiesis and megakaryocytopoiesis, wherein A, B, D, E, W, X, Y, Z, R¹ and R² are defined as above.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER INV. C07D413/12 C07D417/12 C07D417/14 C07D473/34 C07D487/04 A61K31/4436 A61K31/506 A61K31/52 A61K31/53 A61P7/06		
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B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) C07D 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 practical, search terms used) EPO-Internal, CHEM ABS Data		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01/00589 A (BAYER AG [DE]; STOLTEFUSS JUERGEN [DE]; BRAEUNLICH GABRIELE [DE]; LOEG) 4 January 2001 (2001-01-04) page 22, line 20 - page 24, line 3; examples 24,26,47,50,52	1,9
X	EP 1 354 880 A1 (SHIONOGI & CO [JP]) 22 October 2003 (2003-10-22) page 27, line 25 - page 28, line 25; tables 1,7	1,9
X	EP 1 207 155 A1 (SHIONOGI & CO [JP]) 22 May 2002 (2002-05-22) tables 1-17,24,25	1-9
A	EP 1 253 142 A1 (SHIONOGI & CO [JP]) 30 October 2002 (2002-10-30) claims 1,25,29	1,9
☐ Further documents are listed in the continuation of Box C. ☒ See patent family annex.		
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Date of the actual completion of the international search 31 October 2006		Date of mailing of the international search report 07/11/2006
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/IB2005/002892

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0100589	A	04-01-2001	AU 5974100 A	31-01-2001
			CA 2377117 A1	04-01-2001
			DE 19929782 A1	04-01-2001
			EP 1196392 A1	17-04-2002
			JP 2003503391 T	28-01-2003
			US 6867206 B1	15-03-2005
EP 1354880	A1	22-10-2003	BR 0206670 A	25-02-2004
			CA 2435143 A1	01-08-2002
			CN 1516696 A	28-07-2004
			WO 02059100 A1	01-08-2002
			MX PA03006510 A	15-10-2003
			US 2004063764 A1	01-04-2004
EP 1207155	A1	22-05-2002	AU 6023300 A	13-02-2001
			CA 2380206 A1	01-02-2001
			CN 1376150 A	23-10-2002
			WO 0107423 A1	01-02-2001
			US 7026334 B1	11-04-2006
EP 1253142	A1	30-10-2002	AU 777777 B2	28-10-2004
			AU 2708901 A	31-07-2001
			CA 2397018 A1	26-07-2001
			CN 1419547 A	21-05-2003
			WO 0153267 A1	26-07-2001
			US 2003195231 A1	16-10-2003