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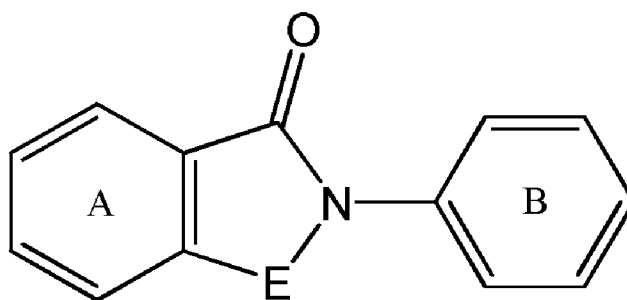
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- (88) **Date of publication of the international search report:**
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(54) **Title:** TREATMENT OF BIPOLAR DISORDER



Formula I

(57) **Abstract:** The invention relates to sulphur- and/or selenium-containing compounds that can inhibit the enzyme inositol mono-phosphatase (IMPase), and which can be used in treating conditions that are treatable through inhibition of this enzyme, such as bipolar disorder, the compounds having a structure of Formula (I), or is a pharmaceutically acceptable salt thereof; Formula (I); in which: E is S or Se and each of phenyl rings A and B is optionally substituted with one or more substituents, in which each substituent is selected independently from: (1) a halogen, which is preferably selected from F, Cl and Br; (2) C₁-C₄ alkyl, such as C₁-C₂ alkyl or C₁ alkyl, optionally substituted with one or more halogen atoms, each of which is preferably selected from F, Cl and Br; and (3) C₁-C₄ alkoxy, such as C₁-C₂ alkoxy or C₁ alkoxy; optionally substituted with one or more halogen atoms, each of which is preferably selected from F, Cl and Br.

INTERNATIONAL SEARCH REPORT

International application No
PCT/GB2012/050105

A. CLASSIFICATION OF SUBJECT MATTER
INV. A61P25/18 A61K31/416
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 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 practicable, search terms used)

EPO-Internal, BIOSIS, INSPEC, BEILSTEIN Data, CHEM ABS Data, EMBASE, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	Singh et al.: "Inositol monophosphatase: drug target or false alarm?", 2010, XP002686121, Retrieved from the Internet: URL: http://ac.els-cdn.com/S0924977X10701322/1-s2.0-S0924977X10701322-main.pdf?_tid=2f948328-21b3-11e2-9965-00000aacb35e&acdnat=1351506605_3ceb7bd3581175b339f4b299f6c1ec70 [retrieved on 2012-10-29] abstract ----- -/-	1-14



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See patent family annex.

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INTERNATIONAL SEARCH REPORT

International application No

PCT/GB2012/050105

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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A	SARKAR SOVAN ET AL: "Inositol and IP3 levels regulate autophagy: biology and therapeutic speculations", AUTOPHAGY, LANDES BIOSCIENCE, US, vol. 2, no. 2, 1 April 2006 (2006-04-01), pages 132-134, XP009151059, ISSN: 1554-8627, DOI: 10.4161/AUTO.2.2.2387 the whole document -----	1-14
A	US 4 981 980 A (GIOCOBBE ROBERT A [US] ET AL) 1 January 1991 (1991-01-01) cited in the application the whole document ----- -/--	1-14

INTERNATIONAL SEARCH REPORT

International application No

PCT/GB2012/050105

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
T	Antoniadu et al.: "Effect of ebselen, a putative lithium-mimetic on central 5HT2A receptor function in the mouse", 13 December 2011 (2011-12-13), XP002686124, Retrieved from the Internet: URL: http://www.pa2online.org/abstracts/vol9issue3abst058p.pdf [retrieved on 2012-10-29] the whole document	1-14
T	SANMARTIN C ET AL: "Selenium and clinical trials: New therapeutic evidence for multiple diseases", CURRENT MEDICINAL CHEMISTRY 2011 BENTHAM SCIENCE PUBLISHERS B.V. NLD, vol. 18, no. 30, October 2011 (2011-10), pages 4635-4650, XP002686125, ISSN: 0929-8673 the whole document	1-14
A	SCONZO GABIELLA ET AL: "Effect of the IMPase inhibitor L690,330 on sea urchin development", CELL BIOLOGY INTERNATIONAL, vol. 22, no. 2, 1998, pages 91-94, XP002686126, ISSN: 1065-6995 the whole document	1-14

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/GB2012/050105

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 4981980	A	01-01-1991	NONE
