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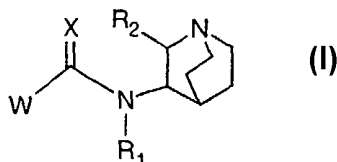
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(54) Title: QUINUCLIDINE-SUBSTITUTED HETEROARYL MOIETIES FOR TREATMENT OF DISEASE (NICOTINIC) ACETYLCHOLINE RECEPTOR LIGANDS



(57) Abstract: The invention provides compound of Formula (I): These compounds may be in the form of pharmaceutical salts or compositions, and racemic mixtures or pure enantiomers thereof. The compounds of Formula (I) are useful in pharmaceuticals in which $\alpha 7$ is known to be involved.

INTERNATIONAL SEARCH REPORT

International Application No

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A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07D453/02 C07D487/08 A61K31/439 A61P25/00 C07D409/12
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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)

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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, WPI Data, PAJ, 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.
E	WO 01 60821 A (ASTRAZENECA AB ;PHILLIPS EIFION (US); SCHMIESING RICHARD (US)) 23 August 2001 (2001-08-23) * overlap of chemical formula * the whole document ---	1-97
P,X	WO 01 36417 A (ASTRAZENECA AB ;MULLEN GEORGE (US); PHILLIPS EIFION (US); BALESTRA) 25 May 2001 (2001-05-25) * see claim 1, A = II, definition of R3 * the whole document --- -/--	1-97



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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International Application No

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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.
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X	& JP 04 247081 A (TAKEDA CHEM. IND LTD) 3 September 1992 (1992-09-03) * see page 717, examples *	1-97
X	EP 0 378 111 A (ZAMBON SPA) 18 July 1990 (1990-07-18) * see claim 1, R2 = D, overlap of chemical formula * the whole document	1-97
Y	EP 0 327 335 A (ROBINS CO INC A H) 9 August 1989 (1989-08-09) * see claim 1, definition of Ar * the whole document	1-97
Y	WO 98 54189 A (NIELSEN ELSEBET OESTERGAARD ;NEUROSEARCH AS (DK); OLSEN GUNNAR M () 3 December 1998 (1998-12-03) * see p.2, lines 17 - 33 * the whole document	1-97
Y	WO 97 30998 A (ASTRA AB ;MACOR JOHN (US); WU EDWIN (US)) 28 August 1997 (1997-08-28) * see claim 1, A = IV * the whole document	1-97
Y	HOLLADAY ET AL: "Neuronal Nicotinic Acetylcholine Receptors as Targets for Drug Discovery" JOURNAL OF MEDICINAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY. WASHINGTON, US, vol. 40, no. 26, 19 December 1997 (1997-12-19), pages 4169-4194, XP002124847 ISSN: 0022-2623 * see P.4184, molecular modelling, compare p.4179, ex. 18 and p.4180, ex. 60, 61 * the whole document	1-97

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INTERNATIONAL SEARCH REPORT

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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Y	BANNON A W ET AL: "BROAD-SPECTRUM, NON-OPIOID ANALGESIC ACTIVITY BY SELECTIVE MODULATION OF NEURONAL NICOTINIC ACETYLCHOLINE RECEPTORS" SCIENCE, AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE,, US, vol. 279, no. 5347, 1998, pages 77-81, XP000906771 ISSN: 0036-8075 * see p.77, cpds. fig 1 * -----	1-97

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Information on patent family members

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