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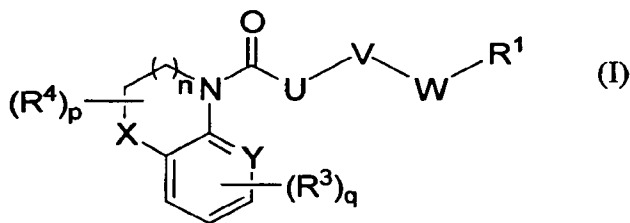
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(54) Title: NON-NUCLEOSIDE REVERSE TRANSCRIPTASE INHIBITORS



(57) Abstract: Compounds of Formula I: (I); are HIV re-  
verse transcriptase inhibitors, wherein X, U, V, W, R<sub>1</sub>, R<sub>2</sub>,  
R<sub>3</sub>, R<sub>4</sub>, n, p, and q are defined herein. The compounds of  
Formula I and their pharmaceutically acceptable salts are  
useful in the inhibition of HIV reverse transcriptase, the  
prophylaxis and treatment of infection by HIV and in the  
prophylaxis, delay in the onset, and treatment of AIDS.  
The compounds and their salts can be employed as ingre-  
dients in pharmaceutical compositions, optionally in com-  
bination with other antivirals, immunomodulators, antibi-

otics or vaccines.

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 07/13689

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - A01N 55/02; A61K 31/555, 31/47 (2008.04)

USPC - 514/187, 311

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)

USPC - 514/187, 311

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
USPC-514/253.06 (see search terms below)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Dialog: 344,347,348,349,371,652,654,345,351, Google, Google Patents, WIPO website

Search Terms Used:

tetrahydroquinoline, dihydroquinoline, thiocarbamate, carbamate, urea, diamide, HIV reverse transcriptase inhibitors

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages                                                                                                                                                                                           | Relevant to claim No. |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Y         | US 6,329,389 B1 (Suzuki et al.) 11 December 2001 (11.12.2001) abstract; col 3, ln 37 to col 9, ln 34; col 4, ln 28-49, 51-53, 59-60; col 5, ln 8-24, 52-56; col 7, ln 10-13, 35, 39-44; col 9, ln 28-50; col 11, ln 19 to col 13, ln 9; and col 49, ln 27 to col 52, ln 49). | 1-20                  |
| Y         | US 2004/0082571 A1 (Pennell et al.) 11 June 2003 (11.06.2003), Summary; [0009]-[0013]; [0022]; [0104]; and [0106] to [0108].                                                                                                                                                 | 1-20                  |
| Y         | US 6,063,806 A (Kamiya) 03 April 1998 (03.04.1998), Abstract; col 2, ln 35-54, 61-62; col 3, 63-67; col 4, ln 3-7, 26-33;                                                                                                                                                    | 1-20                  |
| Y         | US 2003/0125344 A1 (Nagarathnam et al.) 03 July 2003 (03.07.2003), [0013]; [0018]-[0020]; [0039]-[0045].                                                                                                                                                                     | 3                     |
| Y         | US 5,527,819 A (Williams et al.) 18 June 1996 (18.06.1996) col, 1 ln 14-39; col 40, ln 48-67.                                                                                                                                                                                | 19-20                 |
| A         | US 5,840,727 A (Strupczewski et al.) 06 June 1995 (06.06.1995) col 3, ln 31-37; col 5, ln 10-24; col 14, ln 45-67; col 15, ln 8-25; col 31, ln 1-15.                                                                                                                         | 7-8 and 12-17         |
| A         | US 4,294,832 A (Yoneda et al.) 10 April 1980 (10.04.1980) abstract; col 2-3                                                                                                                                                                                                  | 1                     |
| A,P       | WO 2007/021629 A2 (Williams et al.) 22 February 2007 (22.02.2007) p 23, ln 11 to p 24, ln 14; claims 10, 12, 14.                                                                                                                                                             | 18-20                 |

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Further documents are listed in the continuation of Box C.

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"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

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"P" document published prior to the international filing date but later than the priority date claimed

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"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

"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

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