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सत्यमेव जयते

क्रमांक : 022113598
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भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE

पेटेंट प्रमाणपत्र
PATENT CERTIFICATE

(Rule 74 Of The Patents Rules)

पेटेंट सं. / Patent No.	:	369405
आवेदन सं. / Application No.	:	202021005494
फाइल करने की तारीख / Date of Filing	:	07/02/2020
पेटेंटी / Patentee	:	1.Dr.Sudhakar Raghunathrao Bhusare 2.Dr.Hanmant Madhavrao Kasralikar 3.Ms. Sarita C. Deokar

प्रमाणित किया जाता है कि पेटेंटी को उपरोक्त आवेदन में यथाप्रकटित PYRAZOLOTHIAZOLE [3,4-D] HYBRIDS AND PROCESS FOR PREPARING THE SAME नामक आविष्कार के लिए, पेटेंट अधिनियम, १९७० के उपबंधों के अनुसार आज तारीख 7th day of February 2020 से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled PYRAZOLOTHIAZOLE [3,4-D] HYBRIDS AND PROCESS FOR PREPARING THE SAME as disclosed in the above mentioned application for the term of 20 years from the 7th day of February 2020 in accordance with the provisions of the Patents Act,1970.

PRINCIPAL
Lal Bahadur Shastri Mahavidyalaya
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THE PATENT OFFICE GOVT.OF INDIA

अनुदान की तारीख :
Date of Grant : 16/06/2021

(18)

पेटेंट नियंत्रक
Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाता है, **7th day of February 2022** को और उसके पश्चात प्रत्येक वर्ष में उसी दिन देय होगी।
Note. - The fees for renewal of this patent, if it is to be maintained will fall / has fallen due on 7th day of February 2022 and on the same day in every year thereafter.

1. IN202021005494 - PYRAZOLOTHIAZOLE [3,4-D] HYBRIDS AND PROCESS FOR PREPARING THE SAME

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Applicants
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Title
(EN) PYRAZOLOTHIAZOLE [3,4-D] HYBRIDS AND PROCESS FOR PREPARING THE SAME

Abstract
(EN)
Pyrazolothiazole [3,4-d] hybrids and process for preparing the same are disclosed in order to solve the challenges faced in the synthesis of the antiviral drugs. Due to unavailability of general reaction pathways and lengthy synthetic routes biologically active heterocyclic moieties are under representation. The present invention provides a series of phenyl-2H-pyrazolo [3,4-d] thiazole-5[6H]-imine derivatives acting as potential anti HIV-1 NNRT inhibitors. Molecular docking studies reveal that these molecules possess activity due to the presence of p- p interaction of the methoxy phenyl-thiazolyl nucleus into the hydrophobic binding pocket of RT. These compounds are synthesized from 5-arylidene-2-imino-3- [4-arylthiazol-2-yl]-thiazolidin-4-ones (5). The 5-arylidene-2-imino-3-[4-arylthiazol-2-yl]-thiazolidin-4-ones (5) are synthesized from 2-amino-4-arylthiazoles (1) and 2-chloro-acetamido-4-arylthiazoles (2) via the formation of 2-imino-3-[4-substituted-arylthiazol-2-yl]-thiazolidin-4-ones (3) using substituted aldehydes (4). The 5-acrylidene derivatives 5 on cyclisation with phenyl hydrazine give the pyrazolo [3,4d] thiazole derivatives (6).