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पेटेंट कार्यालय, भारत सरकार

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Patent Certificate

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पेटेंटी / Patentee

INDIAN INSTITUTE OF TECHNOLOGY JODHPUR

आविष्कारकों का नाम / Name of Inventor(s)

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प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित [(L2)VIVO](CLO4) FOR CATALYTIC ORGANIC TRANSFORMATIONS AND SYNTHESIS THEREOF नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख अप्रैल 2022 के सोलहवें दिन 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 [(L2)VIVO](CLO4) FOR CATALYTIC ORGANIC TRANSFORMATIONS AND SYNTHESIS THEREOF as disclosed in the above mentioned application for the term of 20 years from the 16th day of April 2022 in accordance with the provisions of the Patents Act, 1970.



अनुदान की तारीख
Date of Grant : 11/06/2025

पेटेंट नियंत्रक
Controller of Patents

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, अप्रैल 2024 के सोलहवें दिन 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 16th day of April 2024 and on the same day in every year thereafter.

(54) Title of the invention : [(L2)VIVO](CLO4) FOR CATALYTIC ORGANIC TRANSFORMATIONS AND SYNTHESIS THEREOF

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(57) Abstract :

V-complex catalyst is provided together with processes of organic transformations by involving the same based on employing H₂O₂ as stoichiometric oxidant, such as oxidation of aldehyde to ester and α - β unsaturated esters to ester catalyzed by said V-complex [(L2)VIVO](CLO4) catalyst as disclosed herein. The synthesized compounds/analogues of the instant invention enabling said catalytic processes described herein are represented by the general formula (I) wherein R moiety is derived from alcohols including methanol, ethanol, isopropanol, isobutanol, propargylic alcohol and X1-X5 are same or different including -CH₃, -CH₂CH₃, -OCH₃, -O-CH₂CH₃ to be read in relation to a scheme below:

No. of Pages : 25 No. of Claims : 10