

पेटेंट कार्यालय
शासकीय जर्नल

**OFFICIAL JOURNAL
OF
THE PATENT OFFICE**

निर्गमन सं. 30/2022
ISSUE NO. 30/2022

शुक्रवार
FRIDAY

दिनांक: 29/07/2022
DATE: 29/07/2022

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202221036094 A

(19) INDIA

(22) Date of filing of Application :23/06/2022

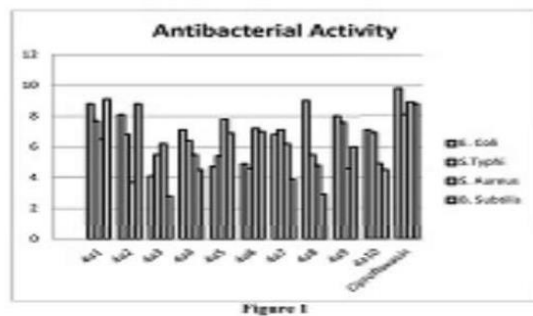
(43) Publication Date : 29/07/2022

(54) Title of the invention : SYNTHESIS AND ANTI-MICROBIAL ACTIVITY OF 2,5 DISUBSTITUTED -1, 3,4 OXADIAZOLE DERIVATIVES

<p>(51) International classification :C07D0413040000, C07D0271060000, C09K0011060000, C07D0271113000, C07D0313120000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No :NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Ms. Ashwini Suresh Patil Address of Applicant :Assistant Professor, Annasaheb Dange College of B. Pharmacy, Ashta, Malli Nagar, Walwa, Sangli, Maharashtra, Pin Code: 416313 Walwa -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Ms. Ashwini Suresh Patil Address of Applicant :Assistant Professor, Annasaheb Dange College of B. Pharmacy, Malli Nagar, Walwa, Sangli, Maharashtra, Pin Code: 416313 Walwa ---</p> <p>2)Dr. Shrinivas Krishna Mohite Address of Applicant :Vice -Principal, Rajarambapu College of Pharmacy, Kasegaon, Near Mahadev Temple, Mahadevewadi, Walwa, Sangli, Maharashtra, Pin Code: 402116 Walwa -----</p> <p>3)Dr. Mahesh Govind Saralaya Address of Applicant :Principal, Annasaheb Dange College of Pharmacy,Ashta, 4B,Wing A, Siddivinayakpurnam Society, Datta Nagar, Near 80 Ft Road ,Vishrambhag, Sangli, Maharastra, Pin Code: 416415. Vishrambhag -----</p> <p>4)Ms. Shailaja Prakash Desai Address of Applicant :Assistant Professor, Annasaheb Dange College of B. Pharmacy, Ashta, Yallama Chowk, Islampur, Walwa, Sangli, Maharashtra, Pin Code: 415409. Walwa -----</p> <p>5)Ms. Nisha Mohan Jagtap Address of Applicant :Assistant Professor, Annasaheb Dange College of B. Pharmacy,Ashta, Near Jio Tower, Yewalewadi, Walwa, Sangli, Maharashtra, Pin Code: 415404. Walwa -----</p> <p>6)Mr. Harshad Popat Khade Address of Applicant :Assistant Professor, Annasaheb Dange College of Pharmacy, Ashta, Near Parshwnath Jain Temple, Magachi Galli, Kavathe-Ekand, Tasgaon, Sangli, Maharashtra, Pin Code: 416307. Tasgaon -----</p>
--	---

(57) Abstract :

The present invention relates to the synthesis of series of 2,5- disubstituted- 1,3,4 oxadiazole synthesized by using 1-hydroxy 2 naphthoic acid as a starting material An effective synthesis of different 2, 5- disubstituted- 1,3,4 oxadiazole derivatives by nucleophilic addition elimination reaction, nucleophilic substitution reaction and cyclization reaction. 1-hydroxy- 2- naphthoic acid with concentrated sulphuric acid and ethanol resulted the formation of carboxylate, and again refluxing in ethanol and hydrazine hydrate resulted the formation of carbonylhydrazone intermediate. when treated with cyanogen bromide, 1,4 dioxane and sodium bicarbonate and ethanol the formation of compound 1,3,4 oxadiazole, derivatives were synthesized by using different aromatic aldehyde. Results indicated that synthesized compounds 4a1 to 4a10 compounds exhibited good antimicrobial and anticancer activities in comparison to standard drug was used.



No. of Pages : 22 No. of Claims : 4