

पेटेंट कार्यालय
शासकीय जर्नल

**OFFICIAL JOURNAL
OF
THE PATENT OFFICE**

निर्गमन सं. 39/2024
ISSUE NO. 39/2024

शुक्रवार
FRIDAY

दिनांक: 27/09/2024
DATE: 27/09/2024

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

INTRODUCTION

In view of the recent amendment made in the Patents Act, 1970 by the Patents (Amendment) Act, 2005 effective from 01st January 2005, the Official Journal of The Patent Office is required to be published under the Statute. This Journal is being published on weekly basis on every Friday covering the various proceedings on Patents as required according to the provision of Section 145 of the Patents Act 1970. All the enquiries on this Official Journal and other information as required by the public should be addressed to the Controller General of Patents, Designs & Trade Marks. Suggestions and comments are requested from all quarters so that the content can be enriched.

**(PROF. (DR) UNNAT P. PANDIT)
CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS**

27th september, 2024

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341018953 A

(19) INDIA

(22) Date of filing of Application :21/03/2023

(43) Publication Date : 27/09/2024

(54) Title of the invention : AN AEROBIC PYROLYZER FOR THE GENERATION OF GUAIACOL FROM LIGNIN SLUDGE

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Filing Date	:NA	4)Ayush Agrawal
(87) International Publication No	: NA	5)Vidya C
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

TITLE: AN AEROBIC PYROLYZER FOR THE GENERATION OF GUAIACOL FROM LIGNIN SLUDGE ABSTRACT An aerobic pyrolyzer system 200 comprising: an air pump unit 202 configured to supply air constantly through an air pump connected to one of the necks of the distillation column of a distillation unit 204; a distillation unit 204 with two necked distillation column and a round bottom flask that has purified lignin is placed on a tripod stand subjected to constant heating by a heater unit 206 using bunsen burner at 350 °C to 400 °C; a condenser unit 208 that condenses the fumes passing from the heater unit 206 by injection of a isopropyl alcohol; and a collector unit 210 connected to the other neck of the distillation column of the distillation unit 204 with a conical flask placed in a trough of ice and isopropyl alcohol where a condensed monomers are collected, wherein the aerobic pyrolyzer system is used for the generation of guaiacol from lignin sludge. FIG. 2

No. of Pages : 14 No. of Claims : 6