पेटेंट कार्यालय
शासकीय जर्नल

OFFICIAL JOURNAL
OF
THE PATENT OFFICE

निर्गमन सं. 32/2024	शुक्रवार	दिनांक: 09/08/2024
ISSUE NO. 32/2024	FRIDAY	DATE: 09/08/2024

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/08/2024

(21) Application No.202441058720 A
(43) Publication Date : 09/08/2024

(54) Title of the invention : DEVELOPMENT OF CALCIUM - RICH COOKIES FROM FISH-BONE POWDER

(51) International classification :A21D13/80, A21D2/34, A23L17/20
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)TKM INSTITUTE OF TECHNOLOGY
Address of Applicant :Karuvelil Post, Kollam - 691505, Kerala, India Kollam ---------- ----------
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Pearl Pinto
Address of Applicant :B. Tech Student, Department of Food Technology, TKM Institute of Technology, Karuvelil Post, Kollam - 691505, Kerala, India Kollam ---------- ----------
2)Nuhma Shibin M
Address of Applicant :B. Tech Student, Department of Food Technology, TKM Institute of Technology, Karuvelil Post, Kollam - 691505, Kerala, India Kollam ---------- ----------
3)Mohammed Rajih
Address of Applicant :B. Tech Student, Department of Food Technology, TKM Institute of Technology, Karuvelil Post, Kollam - 691505, Kerala, India Kollam ---------- ----------
4)Mohammed Nafih C
Address of Applicant :B. Tech Student, Department of Food Technology, TKM Institute of Technology, Karuvelil Post, Kollam - 691505, Kerala, India Kollam ---------- ----------
5)Laya Liz Kuriakose
Address of Applicant :Assistant Professor Department of Food Technology, TKM Institute of Technology, Karuvelil Post, Kollam - 691505, Kerala, India Kollam ---------- ----------
6)Dr. R. Sindhu
Address of Applicant :Professor and Dean Research, Department of Food Technology, TKM Institute of Technology, Karuvelil Post, Kollam - 691505, Kerala, India Kollam ---------- ----------

(57) Abstract :
This study aimed to utilize waste fish bones by processing them into fish bone powder to enrich cashew nut cookies. Fish bones, rich in essential nutrients like sodium, phosphorus, and calcium, were used to fortify cookies at levels of 0%, 1%, and 3% of the wheat flour. Proximate analysis, calcium, ash content, and sensory evaluation were conducted on the cookies. Results showed that incorporating fish bone powder increased the total ash and calcium content at 1% and above. The best sensory scores were given to cookies with 1% fish bone powder. The study concluded that adding fish bone powder effectively enhances the nutritional value of cashew nut cookies, adds value to fishery waste, and reduces the environmental impact of fish farming. The fortified cookies were well-received without any negative impact on sensory attributes, demonstrating the feasibility of this nutritional enhancement.

No. of Pages : 27 No. of Claims : 10