



ORIGINAL
क्रम सं/ Serial No. : 159997



पेटेंट कार्यालय, भारत सरकार | The Patent Office, Government Of India

डिजाइन के पंजीकरण का प्रमाण पत्र | Certificate of Registration of Design

डिजाइन सं. / Design No. : 404466-001

तारीख / Date : 13/01/2024

पारस्परिकता तारीख / Reciprocity Date* :

देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **FISH QUALITY CHECKING DEVICE** से संबंधित है, का पंजीकरण, श्रेणी 10-05 में 1.Dr. Amit Kumar Sharma 2. Prof. Sunil Kumar 3.Dr. Rakesh Kumar 4.Dr. Vishal Kamboj 5.Mr. Kushal Thakur 6.Mr. Danish Mahajan 7.Mr. Arvind Kumar Sharma के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 10-05 in respect of the application of such design to **FISH QUALITY CHECKING DEVICE** in the name of 1.Dr. Amit Kumar Sharma 2. Prof. Sunil Kumar 3.Dr. Rakesh Kumar 4.Dr. Vishal Kamboj 5.Mr. Kushal Thakur 6.Mr. Danish Mahajan 7.Mr. Arvind Kumar Sharma.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अधधीन प्रावधानों के अनुसरण में।
In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.



कृपात की संज्ञित

जारी करने की तिथि : 14/03/2024
Date of Issue

महानियंत्रक पेटेंट, डिजाइन और व्यापार चिह्न
Controller General of Patents, Designs and Trade Marks

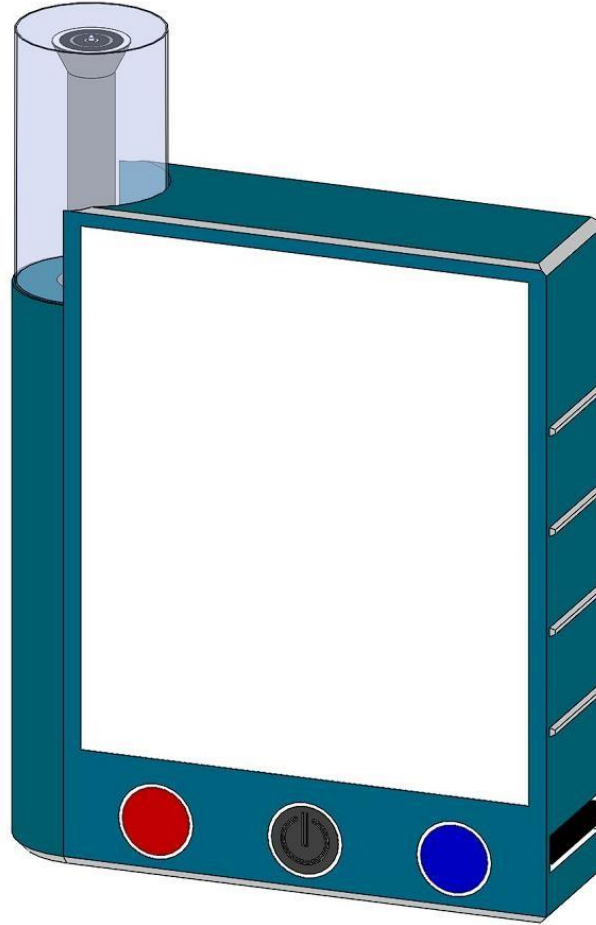
*पारस्परिकता तारीख (यदि कोई हो) जिसकी अनुमति दी गई है तथा देश का नाम। डिजाइन का स्वत्वाधिकार पंजीकरण की तारीख से दस वर्षों के लिए होगा जिसका विस्तार, अधिनियम एवं नियम के निबंधनों के अधीन, पाँच वर्षों की अतिरिक्त अवधि के लिए किया जा सकेगा। इस प्रमाण पत्र का उपयोग विधिक कार्यवाहियों अथवा विदेश में पंजीकरण प्राप्त करने के लिए नहीं हो सकता है।
The reciprocity date (if any) which has been allowed and the name of the country. Copyright in the design will subsist for ten years from the date of Registration, and may under the terms of the Act and Rules, be extended for a further period of five years. This Certificate is not for use in legal proceedings or for obtaining registration abroad.

Name of Applicant:

1. Dr. Amit Kumar Sharma
2. Prof. Sunil Kumar
3. Dr. Rakesh Kumar
4. Dr. Vishal Kamboj
5. Mr. Kushal Thakur
6. Mr. Danish Mahajan
7. Mr. Arvind Kumar Sharma

Total Pages: 7

Page 1 of 7



PERSPECTIVE VIEW

The novelty resides in the shape and configuration of “**FISH QUALITY CHECKING DEVICE**” as illustrated.

No claim is made by virtue of this registration in respect of any mechanical or other action of any mechanism whatever or in respect of any mode or principle of construction of the Article.

No claim is made by virtue of this registration to any right to the exclusive use of the words, color or color combination, letters, numbers, or trademarks appearing in the representation.

Date -13thJAN, 2024

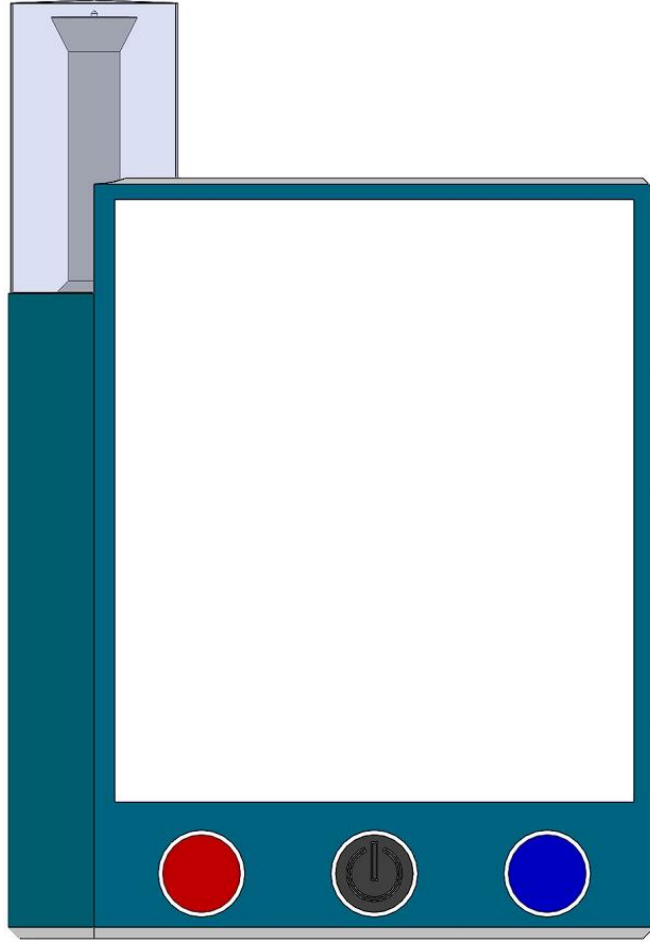
Signature of the Submitter
Dr. Amit Kumar Sharma

Name of Applicant:

1. Dr. Amit Kumar Sharma
2. Prof. Sunil Kumar
3. Dr. Rakesh Kumar
4. Dr. Vishal Kamboj
5. Mr. Kushal Thakur
6. Mr. Danish Mahajan
7. Mr. Arvind Kumar Sharma

Total Pages: 7

Page 2 of 7



FRONT VIEW

The novelty resides in the shape and configuration of “**FISH QUALITY CHECKING DEVICE**” as illustrated.

No claim is made by virtue of this registration in respect of any mechanical or other action of any mechanism whatever or in respect of any mode or principle of construction of the Article.

No claim is made by virtue of this registration to any right to the exclusive use of the words, color or color combination, letters, numbers, or trademarks appearing in the representation..

Date -13thJAN, 2024

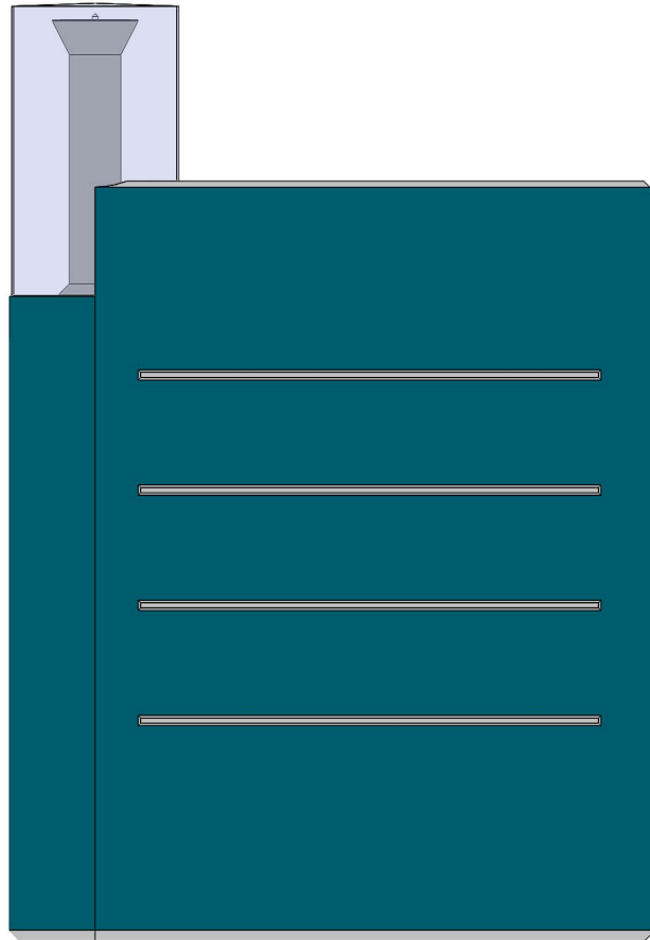
Signature of the Submitter
Dr. Amit Kumar Sharma

Name of Applicant:

1. Dr. Amit Kumar Sharma
2. Prof. Sunil Kumar
3. Dr. Rakesh Kumar
4. Dr. Vishal Kamboj
5. Mr. Kushal Thakur
6. Mr. Danish Mahajan
7. Mr. Arvind Kumar Sharma

Total Pages: 7

Page 3 of 7



REAR VIEW

The novelty resides in the shape and configuration of “**FISH QUALITY CHECKING DEVICE**” as illustrated.

No claim is made by virtue of this registration in respect of any mechanical or other action of any mechanism whatever or in respect of any mode or principle of construction of the Article.

No claim is made by virtue of this registration to any right to the exclusive use of the words, color or color combination, letters, numbers, or trademarks appearing in the representation..

Date -13thJAN, 2024

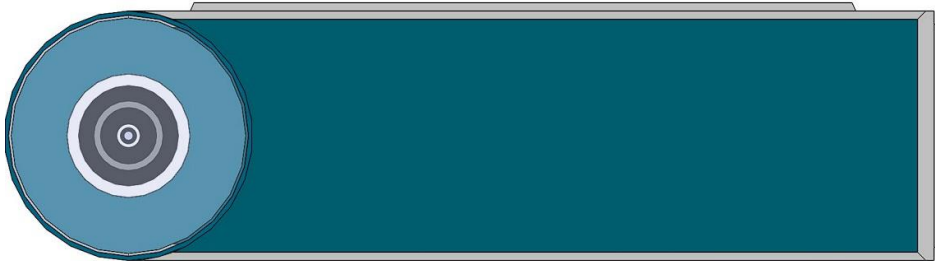
Signature of the Submitter
Dr. Amit Kumar Sharma

Name of Applicant:

1. Dr. Amit Kumar Sharma
2. Prof. Sunil Kumar
3. Dr. Rakesh Kumar
4. Dr. Vishal Kamboj
5. Mr. Kushal Thakur
6. Mr. Danish Mahajan
7. Mr. Arvind Kumar Sharma

Total Pages: 7

Page 4 of 7



TOP VIEW

The novelty resides in the shape and configuration of “**FISH QUALITY CHECKING DEVICE**” as illustrated.

No claim is made by virtue of this registration in respect of any mechanical or other action of any mechanism whatever or in respect of any mode or principle of construction of the Article.

No claim is made by virtue of this registration to any right to the exclusive use of the words, color or color combination ,letters, numbers, or trade marks appearing in the representation.

Date -13thJAN, 2024

Signature of the Submitter
Dr. Amit Kumar Sharma

Name of Applicant:

1. Dr. Amit Kumar Sharma
2. Prof. Sunil Kumar
3. Dr. Rakesh Kumar
4. Dr. Vishal Kamboj
5. Mr. Kushal Thakur
6. Mr. Danish Mahajan
7. Mr. Arvind Kumar Sharma

Total Pages: 7

Page 5 of 7



BOTTOM VIEW

The novelty resides in the shape and configuration of “**FISH QUALITY CHECKING DEVICE**” as illustrated.

No claim is made by virtue of this registration in respect of any mechanical or other action of any mechanism whatever or in respect of any mode or principle of construction of the Article.

No claim is made by virtue of this registration to any right to the exclusive use of the words, color or color combination, letters, numbers, or trademarks appearing in the representation.

Date -13thJAN, 2024

Signature of the Submitter
Dr. Amit Kumar Sharma

Name of Applicant:

1. Dr. Amit Kumar Sharma
2. Prof. Sunil Kumar
3. Dr. Rakesh Kumar
4. Dr. Vishal Kamboj
5. Mr. Kushal Thakur
6. Mr. Danish Mahajan
7. Mr. Arvind Kumar Sharma

Total Pages: 7

Page 6 of 7



LEFT SIDE VIEW

The novelty resides in the shape and configuration of “**FISH QUALITY CHECKING DEVICE**” as illustrated.

No claim is made by virtue of this registration in respect of any mechanical or other action of any mechanism whatever or in respect of any mode or principle of construction of the Article.

No claim is made by virtue of this registration to any right to the exclusive use of the words, color or color combination, letters, numbers, or trademarks appearing in the representation.

Date -13thJAN, 2024

Signature of the Submitter
Dr. Amit Kumar Sharma

Name of Applicant:

1. Dr. Amit Kumar Sharma
2. Prof. Sunil Kumar
3. Dr. Rakesh Kumar
4. Dr. Vishal Kamboj
5. Mr. Kushal Thakur
6. Mr. Danish Mahajan
7. Mr. Arvind Kumar Sharma

Total Pages: 7

Page 7 of 7



RIGHT SIDE VIEW

The novelty resides in the shape and configuration of “**FISH QUALITY CHECKING DEVICE**” as illustrated.

No claim is made by virtue of this registration in respect of any mechanical or other action of any mechanism whatever or in respect of any mode or principle of construction of the Article.

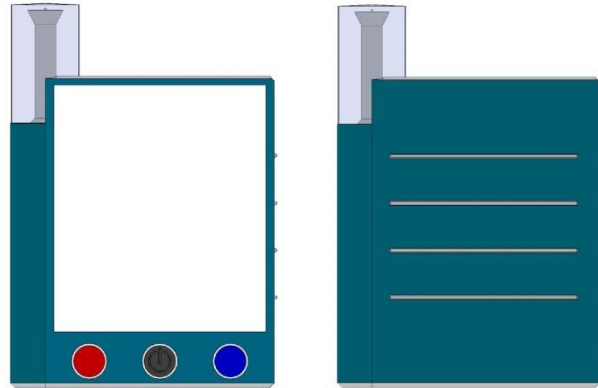
No claim is made by virtue of this registration to any right to the exclusive use of the words, color or color combination, letters, numbers, or trademarks appearing in the representation.

Date -13thJAN, 2024

Signature of the Submitter
Dr. Amit Kumar Sharma

Fish Quality Checking Device

Fish Quality Checking Device (FQCD) is a digital portable instrument designed to assess the quality and freshness of fish quickly and accurately. This device utilizes various technologies to measure different parameters that indicate the



quality of fish, including freshness, contamination, and composition. Here's an overview of key features and functionalities commonly found in this design:

Portable Design: Fish Quality Checking Device is typically compact and lightweight, allowing them to be easily carried and used in various locations such as fish markets, processing facilities, or even on-board fishing vessels.

Freshness Assessment: One of the primary functions of Fish Quality Checking Device is to assess the freshness of fish. This is often done by measuring indicators such as pH level, total volatile basic nitrogen (TVB-N), trimethylamine (TMA), and other volatile compounds that increase as fish deteriorate.

Contaminant Detection: Fish Quality Checking Device is also incorporated with sensors/probes to detect contaminants such as heavy metals, pesticides, antibiotics, or pathogens like bacteria or parasites. This ensures that the fish is safe for consumption.

Physical Characteristics Measurement: Fish Quality Checking Device also measures the physical characteristics of fish, such as size, weight, and texture. These measurements can provide additional insights into the overall quality of the fish.

Non-Destructive Testing: Fish Quality Checking Device is designed to perform non-destructive testing, allowing the fish to be assessed without damaging or altering its integrity. This is important for maintaining the market value of the fish.

User-Friendly Interface: Fish Quality Checking Device features user-friendly interfaces, including digital displays and intuitive controls, making them easy to operate by both trained professionals and non-experts.

Data Analysis and Connectivity: Fish Quality Checking Device is equipped with data analysis capabilities, allowing users to analyze and interpret the results on the device itself or through connected software applications.

Battery-Powered Operation: To support portability, Fish Quality Checking Device typically operates on rechargeable batteries, allowing them to be used in locations without access to electrical outlets.

Durability and Waterproofing: Fish Quality Checking Device is used in wet or harsh environments such as fish processing plants or on fishing boats, they are often designed to be durable and waterproof to withstand these conditions.

Regulatory Compliance: Depending on the intended use and market regulations, Fish Quality Checking Device meets certain standards to ensure accuracy and reliability in quality assessment.

Finally, the digital design **Fish Quality Checking Device** provides a convenient and efficient way to assess the quality of fish, helping to ensure food safety and maintain consumer confidence in seafood products.

Technical Features

Sensors:

Temperature Sensor: Measures the temperature of the fish, crucial for determining freshness.

pH Sensor: Determines the acidity or alkalinity of the fish, which can indicate spoilage.

Gas Sensors: Detect gases like ammonia and sulfur compounds, which are released during decomposition.

Colorimeter: Measures the color of the fish flesh, which changes as it deteriorates.

Digital Interface:

1. LCD screen for displaying readings and status messages.
2. Touchscreen interface for user interaction, allowing for easy navigation and data input.
3. USB port for connecting to a computer for data transfer and analysis.

Data Storage:

1. Internal memory for storing measurement data.
2. Option for expandable storage via SD card or USB drive.
3. Ability to store metadata such as fish type, location, and time of measurement.

Portability:

1. Compact and lightweight design for easy transportation and field use.
2. Rechargeable battery for extended operation in remote locations.

Power Supply:

1. Integrate a solar panel to harness solar energy. Solar panel size based on the power requirements of the device and the geographical location where it will be used.

Data Saving and Transfer:

1. Measurement data, along with metadata, are stored in the device's memory.
2. Users can transfer data to a computer for further analysis and record-keeping using the USB port.

Design Application Details

Application Number:

404466-001

Cbr Number:

200608

Cbr Date:

13/01/2024 20:43:10

Applicant Name:

1. Dr. Amit Kumar Sharma 2. Prof. Sunil Kumar 3. Dr. Rakesh Kumar
4. Dr. Vishal Kamboj 5. Mr. Kushal Thakur 6. Mr. Danish Mahajan
7. Mr. Arvind Kumar Sharma

Design Application Status

Application Status:

Design Accepted and Published, Journal No is 11/2024 and Journal Date is 15/03/2024

[Back \(/DesignApplicationStatus/\)](#)

Disclaimer: Application status is available for the application filed on or after 1st April 2009 with application no 222230. The information under " Design Application Status" is dynamically retrieved and is under testing, therefore the information retrieved by this system is not valid for any legal proceedings under the Design Act 2000. In case of any discrepancy you may contact the appropriate Patent Office or send your comments to following email IDs:

Design Office, Kolkata : controllerdesign.ipo@nic.in

Controller General of Patents, Designs and Trademarks

पेटेंट कार्यालय
शासकीय जर्नल



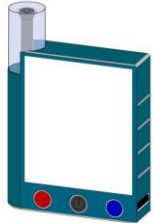
**OFFICIAL JOURNAL
OF
THE PATENT OFFICE**

निर्गमन सं. 11/2024
ISSUE NO. 11/2024

शुक्रवार
FRIDAY

दिनांक: 15/03/2024
DATE: 15/03/2024

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

Design Number	404442-001	
Class	24-01	
1. Vishal Suresh Bagul H. R. Patel Institute of Pharmaceutical education and Research, Shirpur - 425405 2. Aishwarya Dattatray Dhole R. C. Patel Institute of Pharmaceutical Education and Research, Shirpur - 425405 3. Nafees Laeek Shaikh R. C. Patel Institute of Pharmaceutical Education and Research, Shirpur - 425405 4. Urmila Nikam R. C. Patel Institute of Pharmaceutical Education and Research, Shirpur - 425405 , et al.		
Date of Registration	13/01/2024	
Title	REAL-TIME SYNTHESIS ANALYSING DEVICE	
Priority NA		
Design Number	404460-001	
Class	24-01	
1. Mr. Ravi Shankar Kumar Associate Professor, Dasmesh College of Pharmacy, Faridkot - Talwandi Road, Faridkot, Punjab - 151203 2. Mr. Raneev Thakur Assistant Professor, Government College of Pharmacy, Rohru, Shimla, Himachal Pradesh - 171207 3. Ms. Bornika Chattaraj Assistant Professor, Sanaka Educational Trust's Group of Institutions, Malandighi, Durgapur, West Bengal - 713212 4. Mr. Subhadas Chatterjee Assistant Professor, Sanaka Educational Trust's Group of Institutions, Malandighi, Durgapur, West Bengal - 713212 , et al.		
Date of Registration	13/01/2024	
Title	MULTICHAMBERED DEVICE TO PERFORM PHYTOCHEMICAL ANALYSIS	
Priority NA		
Design Number	404466-001	
Class	10-05	
1. Dr. Amit Kumar Sharma Department of Animal Sciences, Central University of Himachal Pradesh, 176206. 2. Prof. Sunil Kumar Department of Animal Sciences, Central University of Himachal Pradesh, 176206. 3. Dr. Rakesh Kumar Department of Animal Sciences, Central University of Himachal Pradesh, 176206 4. Dr. Vishal Kamboj Department of Environmental Science, BFIT Group of Institutions, Dehradun, 248007, Uttarakhand , et al.		
Date of Registration	13/01/2024	
Title	FISH QUALITY CHECKING DEVICE	
Priority NA		