

PD-RPCAUIB-UCN-002/2024



Viksit Bharat
@2047



PATENT GRANTED



DIRECTORATE OF RESEARCH

DR. RAJENDRA PRASAD CENTRAL AGRICULTURAL UNIVERSITY
Pusa, Samastipur, Bihar-848 125

INDEX

Sl. No.	Name of Patent	Page no.
1.	A Self-Propelled Rotary Power Paddy Weeder	3-4
2.	Hand Cranked Improved Chakki	5-6
3.	Hand Tool for Okra Harvesting with Collection Hopper	7-8
4.	A Power-Driven Device for Shelling and Hulling of Grains	9-10
5.	Mushroom Substrate Pasteurizer	11-12
6.	Method and Composition of Unique Mushroom Samosa	13-14
7.	Multi-Crop Seeder	15-16
8.	Energy Dense Nutritive Food having Balanced Nutritional Composition and Process for Preparation	17-18
9.	A Solar Powered Fish Preservation and Transportation Cart	19-20
10.	Design of Food Cart	21-22
11.	Guideline for filing the patent	23-28

What is Patent:

"According to the Indian Patents, Act 1970:

"Patent" means a Patent for any **"Invention"** under Patents, Act 1970.

A Patent is a right given by the Government of a country for an invention. It gives right to stop others from copying the invention. Patent rights are given for a period of 20 years.

"Invention" means a new Product or Process involving an **"Inventive Step"** and **"Capable of Industrial Application"**.

"Inventive Step" means a feature of an invention that involves technical advance as compared to the existing knowledge or having economic significance or both and that makes the invention not obvious to a person skilled in the art.

"Capable of Industrial Application" means that the invention is capable of being made or used in industry."

In order to obtain a Patent Registration, certain prescribed eligibility criteria as per the Law need to be fulfilled.

The Basics of Patent Filing in India

A Patent is one of the forms of Intellectual Property Rights (IPRs) that gives the owner exclusive right for restricting others from using, making, selling, offering for sale and importing of patented product or process of the patented invention or idea without his/her consent. This advantageous concept provides an edge to the patent holder to market their products and maximize revenue in monopoly. Many companies in today's market reality are opting for patent protection. If you have toiled hard mentally, physically, and invested monetarily to evolve an idea, an innovation or an invention, a Patent will safeguard your interests. Patent Grant Certificate is a reward and recognition from the government allowing sole monopoly to the Applicant for his/her creation for twenty years from the priority date of the invention. Ten (10) Patents have been granted in our university in different fields of agriculture science.

Patent No - 01

A Self-Propelled Rotary Power Paddy Weeder

Inventor and Co-Inventors: Dr. Subhash Chandra, Dr. P. K. Pranav and
Dr. Ambrish Kumar

Patent No.: 379307

Date of Patent: 13/10/2021

Brief Information: Self-propelled power paddy weeder is a new invented machine for its suitability to closed row crops like paddy, wheat, lentil etc. The machine has three rotors attached with four blades and the



rotor rotates in direction opposite to each other's at high speed so as to generate centrifugal force. Due to the centrifugal force, the blades churn the soil and weed is uprooted completely from roots. Further the blades throw

the soil on its both sides and as result of this an earthing effect is produced and soil gets deposited on the root of the plants. Due to the action of the blade, a furrow is created between two rows of plant, besides soil agitation in the root zone. The combine effect of weed destruction and earthing up operation appears in form of higher yield of crop due to enhanced water and nutrient use efficiency.



सत्यमेव जयते

भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE
पेटेंट प्रमाणपत्र
PATENT CERTIFICATE
(Rule 74 Of The Patents Rules)

क्रमांक : 033117707
SL No :



पेटेंट सं. / Patent No. : 379307
आवेदन सं. / Application No. : 202031046495
फाइल करने की तारीख / Date of Filing : 25/10/2020
पेटेंटी / Patentee : THE DIRECTOR RESEARCH, DR. RAJENDRA PRASAD
CENTRAL AGRICULTURAL UNIVERSITY

प्रमाणित किया जाता है कि पेटेंटी को उपरोक्त आवेदन में यथाप्रकटित A SELF PROPELLED ROTARY POWER PADDY WEEDER. नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख 25th day of October 2020 से बीस वर्ष की अवधि के लिए पेटेंट अनुवत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled A SELF PROPELLED ROTARY POWER PADDY WEEDER. as disclosed in the above mentioned application for the term of 20 years from the 25th day of October 2020 in accordance with the provisions of the Patents Act, 1970.



अनुदान की तारीख : 13/10/2021
Date of Grant :

पेटेंट नियंत्रक
Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, 25th day of October 2022 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 25th day of October 2022 and on the same day in every year thereafter.

Patent No - 02

Hand Cranked Improved Chakki

Inventor and Co-Inventor : Dr. Usha Singh and Dr. Subhash Chandra

Patent No.: 3421101-001

Date of Patent: 28/03/2022

Brief Information: The machine is manually operated with provision of gap adjustment between two stones fitted for grinding the grains. The machine has specialty in respect of movement of stones and works in the fashion similar to traditional chakki. The machine is provided with a hopper, grain collector, feeding port, bevel gear assembly, frame and product collecting pan. It can be operated in standing posture or by sitting on chair with less drudgery. The machine is very much suitable for preparation of dal, dalia, suji, aata, besan and sattu. The quality of dal produced by the machine is excellent and the machine has potential for commercial use by the small farmers.





सत्यमेव जयते

ORIGINAL

No. 110925

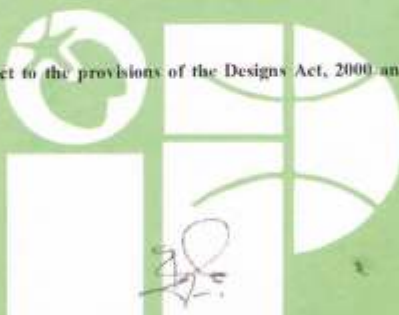
भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE

CERTIFICATE OF REGISTRATION OF DESIGN

Design No. 342101-001
Date 07/04/2021 19:13:40
Reciprocity Date*
Country

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 31-00 in respect of the application of such design to HAND CRANKED IMPROVED CHAKKI in the name of THE DIRECTOR RESEARCH, DR. RAJENDRA PRASAD CENTRAL AGRICULTURAL UNIVERSITY, PUSA (SAMASTIPUR), BIHAR - 848125, INDIA

in pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.



Controller General of Patents, Designs and Trade Marks

*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

ANJAN SEN,
ANJAN SEN & ASSOCIATES, 17, CHAKRABERTIA
ROAD (SOUTH), KOLKATA - 700 025

Date of Issue 28/03/2022 13:12:12

Patent No - 03

Hand Tool for Okra Harvesting with Collection Hopper

Inventor and Co-Inventors : Dr. P. K. Pranav, Dr Subhash Chandra and
Dr. Ambrish Kumar

Patent No.: 415931

Date of Patent: 29/12/2022

Brief Information: The developed hand tool facilitates complete touchless okra harvesting. The tool is handy and small having overall dimension 35 x 10 x 16 cm and weight 272 g. The harvesting capacity is at par with the manual harvesting about 15 kg/h with less human drudgery and energy requirement. The touchless harvesting also enhances the shelf life of the harvested okra which is important aspect for market sell. The smooth and sharp cut of the okra in harvesting through tool is an added advantage for better plant health and okra yield.





INTELLECTUAL
PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS



सत्यमेव जयते

भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE
पेटेंट प्रमाणपत्र
PATENT CERTIFICATE
(Rule 74 of The Patents Rules)

क्रमांक : 033122531
SL No :



पेटेंट सं. / Patent No. : 415931
आवेदन सं. / Application No. : 202231011597
फाइल करने की तारीख / Date of Filing : 03/03/2022
पेटेंटी / Patentee : Dr. Rajendra Prasad Central Agricultural University
आविष्कारक (जहां लागू हो) / Inventor(s) : 1.Dr. P. K. Pranav 2.Dr. Subhash Chandra 3.Dr. Ambrish Kumar

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकरित HAND TOOL FOR OKRA HARVESTING WITH COLLECTION HOPPER नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख मार्च 2022 के तीसरे 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 HAND TOOL FOR OKRA HARVESTING WITH COLLECTION HOPPER as disclosed in the above mentioned application for the term of 20 years from the 3rd day of March 2022 in accordance with the provisions of the Patents Act, 1970.



अनुदान की तारीख : 29/12/2022
Date of Grant :

पेटेंट नियंत्रक
Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, मार्च 2024 के तीसरे दिन को और उसके पश्चात प्रत्येक वर्ष से इसी दिन देय होगी।

Note. - The fees for renewal of this patent, if it is to be maintained will fall / has fallen due on 3rd day of March 2024 and on the same day in every year thereafter.

Patent No - 04

A Power-Driven Device for Shelling and Hulling of Grains

Inventor and Co-Inventor : Dr. Usha Singh & Dr. Subhash Chandra

Patent No.: 417406

Date of Patent: 10/01/2023

Brief Information: The machine is electrically operated. It is fitted with 1.0hp single phase motor for its compatibility of use in houses. The machine is comprised of a wooden mortar, metallic pestle, frame, hopper, blower and sieve arrangement so that shelling of grain and its cleaning may be completed by this machine. The mortar of machine is fitted with a pair of agitators that revolves at uniform speed inside the mortar with the help of ring gear so that thrust created by the pestle may get distributed uniformly over the grains for better output and satisfactory work.



The capacity of machine is 8-10 kg/h in rice, 8-12 kg/h in wheat and 1.75-2.0 kg/h for barnyard millet. It has the ability to complete all works that are usually performed by the traditional Okhali. The machine was designed with aim to promote processing of millets in general and barnyard millet in specific. This machine is also suitable for removing skin and husk of wheat and paddy for preparation of suji, dalia and rice, respectively.



INTELLECTUAL
PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS



सत्यमेव जयते

भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE
पेटेंट प्रमाणपत्र
PATENT CERTIFICATE
(Rule 74 of The Patents Rules)

क्रमांक : 033122698
SL No :



पेटेंट सं. / Patent No. : 417406
आवेदन सं. / Application No. : 202231032082
फाइल करने की तारीख / Date of Filing : 04/06/2022
पेटेंटी / Patentee : Dr. Rajendra Prasad Central Agricultural University
आविष्कारक (जहां लागू हो) / Inventor(s) : 1.Dr. Usha Singh 2.Dr. Subhash Chandra 3.Er. Abhisek Kumar Ansh

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित A power driven device for shelling and hulling of grains नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख जून 2022 के चौथे दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुदान किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled A power driven device for shelling and hulling of grains as disclosed in the above mentioned application for the term of 20 years from the 4th day of June 2022 in accordance with the provisions of the Patents Act, 1970.



अनुदान की तारीख : 10/01/2023
Date of Grant :

पेटेंट नियंत्रक
Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, जून 2024 के चौथे 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 4th day of June 2024 and on the same day in every year thereafter.

Patent No - 05

Mushroom Substrate Pasteurizer

Inventor and Co-Inventors: Dr. Dayaram, Dr. Sudha Nandini and Dr. R.P.K. Ray

Patent No.: 358116-001

Date of Patent: 19/01/2023

Brief Information: Till date mushroom substrate are treated by chemicals or hot water, both methods are not proper in terms of environment and health of human being. Hot water treatment is now days costly than other methods. By this method higher yield and quality mushroom are produced and cheaper to hot water.





ORIGINAL

मूल/No : 125892



भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE
डिजाइन के पंजीकरण का प्रमाणपत्र
CERTIFICATE OF REGISTRATION OF DESIGN

डिजाइन सं. / Design No.	:	358116-001
तारीख / Date	:	08/02/2022
पारस्परिकता तारीख / Reciprocity Date*	:	
देश / Country	:	

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **MUSHROOM SUBSTRATE PASTEURIZER** से संबंधित है, का पंजीकरण, श्रेणी **07-05** में 1.Dr. Rajendra Prasad Central Agricultural University 2. Dr. Dayaram के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

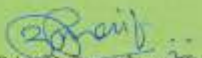
Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class **07-05** in respect of the application of such design to **MUSHROOM SUBSTRATE PASTEURIZER** in the name of 1.Dr. Rajendra Prasad Central Agricultural University 2. Dr. Dayaram.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्यायीन प्रावधानों के अनुसरण में।

In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

INTELLECTUAL
PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

निर्गमन की तारीख/Date of issue : 19/01/2023


काउंट्रोलर जनरल ऑफ पेटेंट्स, डिजाइन्स और ट्रेड मार्क्स
Controller General of Patents, Designs and Trade Marks

चारमसहस्रकाल तक (चरि कोई तो) जिसको अनुगो देश के नाम पर की गई है। डिजाइन का सत्यधिकार पंजीकरण की तारीख से दस वर्षों के लिए होय जिसका विस्तार, अधिनियम एवं नियम के निर्बन्धों के अधीन, पाँच वर्षों की अधिकतम 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.

Patent No - 06

Method and Composition of Unique Mushroom Samosa

Inventor: Dr. Dayaram

Patent No.: 419887

Date of Patent: 31/01/2023

Brief Information: Mushroom samosa is unique item and nutritious food. Its production promotes marketing of oyster of mushroom and obtained round the year at domestic level. No any food item relevant to this are available. It contains 6.76 % moisture, 9.23 % total protein, 23.07% total fat, 56.87 % total carbohydrate, 1.93 % total fiber, 2.14 %, ash and 475.2 Kcal/100gm calorific value.





**INTELLECTUAL
PROPERTY INDIA**
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS



सत्यमेव जयते

भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE
पेटेंट प्रमाणपत्र
PATENT CERTIFICATE
(Rule 74 of The Patents Rules)

क्रमांक : 033123018
SL No :



पेटेंट सं. / Patent No. : 419887
आवेदन सं. / Application No. : 201931030184
फाइल करने की तारीख / Date of Filing : 25/07/2019
पेटेंटी / Patentee : Dr. RAJENDRA PRASAD CENTRAL AGRICULTURE
UNIVERSITY

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित METHOD AND COMPOSITION OF UNIQUE MUSHROOM SAMOSA नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख जुलाई 2019 के पच्चीसवें 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 METHOD AND COMPOSITION OF UNIQUE MUSHROOM SAMOSA as disclosed in the above mentioned application for the term of 20 years from the 25th day of July 2019 in accordance with the provisions of the Patents Act, 1970.

INTELLECTUAL
PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS



अनुदान की तारीख : 31/01/2023
Date of Grant :

Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाता है, जुलाई 2021 के पच्चीसवें 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 25th day of July 2021 and on the same day in every year thereafter.

Patent No - 07

Multi-Crop Seeder

Inventor and Co-Inventors: Dr. Subhash Chandra, Dr. Ambrish Kumar and Er. Abhishek Kumar Ansh

Patent No.: 425659

Date of Patent: 17/03/2023

Brief Information: The machine is an improved seeder with ability to facilitate intercropping. It is a multi-crop seeder embodied with 'off and on' technology to regulate the quantity of seed delivered from the seed box. The



machine works on the principle of Rice-wheat seeder equipment or Drum seeder, where the seed kept in rotating seed box comes out through circular holes engraved on the periphery of the seed box due to gravitational force. The rotation of seed box causes thrust on

seeds and delivery of seed takes place. The multiple sized holes created on the seed box in different numbers are compatible to address different crops for their recommended seed rate. The machine also bears special mechanism to control the seed depth in direction in transverse to the direction of motion of machine to address undulated surface variation in the field. The performance of machine has been found satisfactory and it helps the farmers in satisfactory seeding without going through the calibration process for different types of seeds.



INTELLECTUAL
PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS



सत्यमेव जयते

भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE
पेटेंट प्रमाणपत्र
PATENT CERTIFICATE
(Rule 74 of The Patents Rules)

क्रमांक : 033123679
SL No :



पेटेंट सं. / Patent No. : 425659
आवेदन सं. / Application No. : 202231036177
फाइल करने की तारीख / Date of Filing : 23/06/2022
पेटेंटी / Patentee : Dr. Rajendra Prasad Central Agricultural University
आविष्कारक (जहाँ लागू हो) / Inventor(s) : 1. Dr. Subhash Chandra 2. Dr. Ambrish Kumar 3. Er. Abhishek Kumar Ansh

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित MULTI-CROP SEEDER नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख जून 2022 के तेइसवें दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुदान किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled MULTI-CROP SEEDER as disclosed in the above mentioned application for the term of 20 years from the 23rd day of June 2022 in accordance with the provisions of the Patents Act, 1970.



अनुदान की तारीख : 17/03/2023
Date of Grant :

Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, जून 2024 के तेइसवें 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 23rd day of June 2024 and on the same day in every year thereafter.

Patent No - 08

Energy Dense Nutritive Food having Balanced Nutritional Composition and Process for Preparation

Inventor : Dr Usha Singh

Patent No.: 448601

Date of Patent: 31.08.2023

Brief Information: The energy dense nutritive food having balanced nutritional composition comprising easily available ingredients selected from processed cereals, pulse, nuts, sugar, ghee and milk powder is effective for nutritional management of Severe Acute Malnourished children by helping them to come under “normal condition”. Advantageously the said formulation is user friendly, stable at room temperature upto 5 months.



फ़ॉर्म सं/SE No 033126401



पेटेंट कार्यालय, भारत सरकार

The Patent Office, Government Of India

पेटेंट प्रमाण पत्र

Patent Certificate

(पेटेंट नियमावली का नियम 74)

(Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No. : 448601

आवेदन सं. / Application No. : 202131008081

फाइल करने की तारीख / Date of Filing : 25/02/2021

पेटेंटी / Patentee : THE DIRECTOR RESEARCH, DR. RAJENDRA PRASAD
CENTRAL AGRICULTURAL UNIVERSITY

आविष्कारकों का नाम / Name of Inventor(s) : Dr. Usha Singh

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित **ENERGY DENSE NUTRITIVE FOOD HAVING BALANCED NUTRITIONAL COMPOSITION AND PROCESS FOR PREPARATION** नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख फरवरी 2021 के पच्चीसवें दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुदान किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled **ENERGY DENSE NUTRITIVE FOOD HAVING BALANCED NUTRITIONAL COMPOSITION AND PROCESS FOR PREPARATION** as disclosed in the above mentioned application for the term of 20 years from the 25th day of February 2021 in accordance with the provisions of the Patents Act, 1970.



अनुदान की तारीख
Date of Grant : 31/08/2023

प्रति सेवक
Controller of Patents

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे नव्वर 2023 के ख्यामिये दिन की और उसके पश्चात प्रत्येक वर्ष में उसी दिन देव होगी।

Note - The fees for renewal of this patent, if it is to be maintained, will fall / has fallen due on 25th day of February 2023 and on the same day in every year thereafter.

Patent No - 09

A SOLAR POWERED FISH PRESERVATION AND TRANSPORTATION CART

Inventor : Dr. Shivendra Kumar

Patent No.: 472593

Date of Patent: 23.11.2023

Brief Description:

- Cold Chain Maintenance for Effective Marketing
- Speedy transfer of fish from production to consumption centre, without adding much to the cost
- This machine maintains temperature of storage chamber up to – 240C during unloaded condition and - 150C during fully loaded condition
- About 35 Kg fish can be preserved up to 4-6 days at consumable level.





पेटेंट सं./Pat. No. 033129142



पेटेंट कार्यालय, भारत सरकार

The Patent Office, Government Of India

पेटेंट प्रमाण पत्र

Patent Certificate

(पेटेंट नियमावली का नियम 74)

(Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No. 472593

आवेदन सं. / Application No. 202031044858

फाइल करने की तारीख / Date of Filing 15/10/2020

पेटेंटी / Patentee Dr. RAJENDRA PRASAD CENTRAL AGRICULTURAL UNIVERSITY

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित A SOLAR POWERED FISH PRESERVATION AND TRANSPORTATION CART नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख अक्टूबर 2020 के पंद्रहवें दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुवत किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled A SOLAR POWERED FISH PRESERVATION AND TRANSPORTATION CART as disclosed in the above mentioned application for the term of 20 years from the 15th day of October 2020 in accordance with the provisions of the Patents Act, 1970.

अनुदान की तारीख
Date of Grant : 23/11/2023
Controller of Patents

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, अक्टूबर 2022 के पंद्रहवें दिन को और उसके पचास 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 15th day of October 2022 and on the same day in every year thereafter.

Patent No - 10

Design of Food Cart

Inventor : Dr. Shivendra Kumar

Design No.: 342333-001

Date of Patent: 29.08.2022

Brief Description: The operational cost of selling 35 kg fish without this cart is about Rs. 100/- per day, whereas with Rajendra Matsya Bandhu the Rs. 30/- per day and Cost of One Unit was only Rs. 1.0 Lakh. It increases in profitability to the fish vendors due to No involvement of additional operational cost during fish preservation and marketing and Increase in marketing efficiency due to coverage area for marketing will get increased with better quality fish.

COMPONENTS

- Tricycle
- Chamber for fish storage
- Space for fish dressing
- Solar plates
- Battery
- Digital ON/OFF switch
- Temperature regulator
- Space for keeping knife and other accessories



ORIGINAL

No. 116567

भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE

CERTIFICATE OF REGISTRATION OF DESIGN

Design No. 342333-001
Date 13/04/2021
Reciprocity Date*
Country

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 12-13 in respect of the application of such design to FOOD CART in the name of DR. RAJENDRA PRASAD CENTRAL AGRICULTURAL UNIVERSITY, PUSA, SAMASTIPUR, BIHAR-848125, INDIA

in pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

Controller General of Patents, Designs and Trade Marks

*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

SWEETY SHARMA,
INTELLECTUAL ACUITY, 262-B, POCKET-1,
MAYUR VIHAR PHASE-1, DELHI-110091, INDIA

Date of Issue 29/08/2022 11:45:53

PROPERTY INDIA
DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

Guideline for filing the patent

What is a Patent filing?

To get the patent for the invention, one must file a patent application in the patent Office. The Government has set the laws and rules for filing a Patent in India. One has to follow those laws and rules while filing a Patent. To file a patent, the Patent office requires technical details of the invention along with other details. One must first write the technical details of the invention in a set format. Also, one has to provide the inventor and applicant details.

One important part of the Patent filing in India is writing a technical document in a set format. There are few legal parts also one must follow while writing the technical document. One can take the help of Patent experts for the writing and filing of a Patent document in the Patent office. Patent experts can write the technical document on your behalf as per the set format and can help you with smooth filing.

The procedure for filing Patent in India is governed by the Indian Patent Office in India. The Indian Patent Office is administered by the Office of the Controller General of Patents, Designs & Trademarks (CGPDTM) and it takes care of Patent Filing and Prosecution. The office works with its Kolkata, Chennai, New Delhi and Mumbai branch offices. The online patent can be filed online <https://ipronline.ipindia.gov.in/epatentfiling/goForLogin/doLogin>

In order to obtain a Patent Registration, as per the Law certain prescribed eligibility criteria need to be fulfilled.

Before filing the patent few points that should be considered in India:

- *To qualify for 'Novelty/Newness: An invention or technology should not be anticipated by the publication in any document or should not be used*

in the country or elsewhere in the world before the priority date of Patent filing.

- *To qualify for 'Inventive Step/Non-Obviousness: An invention should have technical advance as compared to the existing knowledge or having economic significance or both, and that makes the invention not obvious to a person skilled in the art. It should not just be a mere workshop improvement that can be reproduced by any skilled person of the field.*
- *In order to qualify for 'Capable for Industrial Application: An invention should be capable enough of being made or used in industry.*
- *In order to qualify for 'Patentable Subject Matter: An Invention should not fall in the category of Non-Patentable Subject Matter that has been detailed under Indian Patents, Act 1970.*

The Non-Patentable Subject Matter are as follow:

- i. An invention which is frivolous, or which claims anything obviously contrary to well established natural laws;
- ii. An invention the primary or intended use or commercial exploitation of which could be contrary to public order or morality or which causes serious prejudice to human, animal or plant life or health or to the environment;
- iii. The mere discovery of a scientific principle or the formulation of an abstract theory or discovery of any living thing or non-living substance occurring in nature
- iv. The mere discovery of a new form of a known substance which does not result in the enhancement of the known efficacy of that substance or the mere discovery of any new property or new use for a known

substance or of the mere use of a known process, machine or apparatus unless such known process results in a new product or employs at least one new reactant.

- v. A substance obtained by a mere admixture resulting only in the aggregation of the properties of the components thereof or a process for producing such substance;
- vi. The mere arrangement or re-arrangement or duplication of known devices each functioning independently of one another in a known way;
- vii. A method of agriculture or horticulture;
- viii. Any process for the medicinal, surgical, curative, prophylactic diagnostic, therapeutic or other treatment of human beings or any process for a similar treatment of animals to render them free of disease or to increase their economic value or that of their products.
- ix. Plants and animals in whole or any part thereof other than micro-organisms but including seeds, varieties, and species and essentially biological processes for production or propagation of plants and animals;
- x. A mathematical or business method or a computer programme per se or algorithms;
- xi. A literary, dramatic, musical or artistic work or any other aesthetic creation whatsoever including cinematographic works and television productions;
- xii. A mere scheme or rule or method of performing mental act or method of playing a game;
- xiii. A presentation of information;
- xiv. The topography of integrated circuits;

- xv. An invention which in effect, is traditional knowledge or which is an aggregation or duplication of known properties of a traditionally known component or components;
- xvi. Inventions relating to atomic energy not patentable."

Steps for Patent Filing in India:

The process for the Patent Filing in India starts with the filing of patent application in the designated Patent Office and only defined. Applicant is eligible for filing a patent application in India for patent grant.

Patent Filing in India: Indian patent office accepts the prescribed forms and documents along with the Official fees as given under the First Schedule of Patents Rule.

The prescribed Forms and documents which need to be filed in the designated Patent Office along with the Official Fees for initiating the patent filing procedure and eventually Patent Registration as follow

Form-1 (Application for grant of a Patent):

It includes the details of the Inventor(s), Applicant(s), type of Patent Application is filed, title of the invention, certain declarations from the Applicant and signatures of the Inventor(s), Applicant(s) and/or Authorized Person.

Form-2 (Provisional/Complete Specification):

It includes the information for the type of Application, the title of the invention, description, claims (if complete specification), abstract of the invention.

Form-3 (Statement and Undertaking):

It includes a statement and undertaking on behalf of the inventor for updating the Controller for any foreign filing Application filed for Patent

registration.

Form-5 (Declaration as to Inventorship):

A declaration as to Inventorship must be filed in the Indian Patent Office.

Form-26 (form for authorization of a Patent Agent/Patent Attorney or any person in a matter or proceeding under the Act):

In the case where Patent Application for Patent Registration is filed by the Patent Agent or the Patent Attorney whose services are taken by the inventor(s), a form for authorization must be submitted in the Patent Office.

Out of the forms mentioned above, Form 1 and Form 2 along with the official fees are mandatory to be filed to initiate the Patent filing procedure. Without the submission of at least Form 1 and Form 2, a date of filing of the Patent application cannot be granted by the patent office. Although it is not advisable, but in some situations Form 3, Form 5, and Form 26 can be submitted after the submission of Form 1 and Form 2 within stipulated timelines to complete the Patent filing procedure in India.

Further, in the case where Patent Application for Registration in India is based on the previous Patent Application filed abroad under the Convention Patent Application (as under the Paris Convention) or PCT route, a Priority document must be filed along with the application.

In the case where the previous Patent Application is in a language other than Hindi or English, a Verified Translation of the same also needs to be submitted to the Indian Patent Office.

Form-28 (To be submitted by a small entity/start-up):

In order to take benefit under the category of small entity/start-up, proof or evidence needs to be submitted. At last, all the documents, Forms or Drawings must be signed by the authorized person or the inventor.

STRATEGY FOR PATENT FILING

Patent filing is a strategic decision, it gives territorial rights to the applicant, meaning, if an applicant is filing a patent application in India, in that case, applicant will get the right in Indian only and not in the other countries. Therefore, for securing the rights in other countries, filing of patent application in those countries can be strategized after completing the patent filing procedure in India in future within stipulated timelines provided by the Indian Patent Office.

For details

[Manual for Patent Office Practice and Procedure. pdf \(ipindia.gov.in\)](#)



PATRON

Dr. P. S. Pandey
Vice-Chancellor
RPCAU Pusa

COMPILED & EDITED BY:

A. K. Singh
S. K. Thakur
Mukesh Kumar
Sarvesh Kumar
Ashish Rai



PUBLISHED BY

DIRECTORATE OF RESEARCH



www.rpcau.ac.in