



Criteria 3.4.2

**E-copies of the letters of Granted patents and the current status
Patents granted in the name of the faculty with the institutional
affiliation to the university working during the assessment period.**

DVV Appendix-I



Criteria 3.4.2

E- Copies of Granted patents

2020-21



Office of the Controller General of Patents, Designs & Trade Marks
Department for Promotion of Industry and Internal Trade
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Government of India

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Application Details

APPLICATION NUMBER	202011045104
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	16/10/2020
APPLICANT NAME	1 . Dr. Anurag Sharma 2 . Dr. Vikrant Sharma 3 . Dr. Love Kumar 4 . Dr. Harjit Pal Singh 5 . Dr. Garima Bakshi 6 . Dr. Suyeb Ahmed Khan 7 . Dr. Amandeep Verma 8 . Dr. Puneet Jai Kaur 9 . Er. Anshu Sharma 10 . Er. Shilpa Sharma
TITLE OF INVENTION	IOT BASED HEALTHCARE QUEUE MANAGEMENT SYSTEM
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	ipec@ennobleip.com
ADDITIONAL-EMAIL (As Per Record)	ipec@ennobleip.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	23/11/2020
PUBLICATION DATE (U/S 11A)	06/11/2020
FIRST EXAMINATION REPORT DATE	02/02/2022
Date Of Certificate Issue	05/06/2024
POST GRANT JOURNAL DATE	07/06/2024
REPLY TO FER DATE	02/08/2022



Application Status

APPLICATION STATUS

Granted Application, Patent Number :540863

[E-Register](#)

[Order\(s\)/Decision\(s\)](#)

[View Documents](#)

➡ Filed ➡ Published ➡ RQ Filed ➡ Under Examination ➡ Disposed

In case of any discrepancy in status, kindly contact ipo-helpdesk@nic.in



क्रम सं/SL No.:011211393



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. : 540863

आवेदन सं. / Application No. : 202011045104

फाइल करने की तारीख / Date of Filing : 16/10/2020

पेटेंटी / Patentee : 1.Dr. Anurag Sharma 2.Dr. Vikrant Sharma 3.Dr. Love Kumar
4.Dr. Harjit Pal Singh

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित IOT BASED HEALTHCARE QUEUE MANAGEMENT SYSTEM नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख अक्टूबर 2020 के सोलहवें दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुवृत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled IOT BASED HEALTHCARE QUEUE MANAGEMENT SYSTEM as disclosed in the above mentioned application for the term of 20 years from the 16th day of October 2020 in accordance with the provisions of the Patents Act, 1970.



Signature of Controller of Patents
उत्तर की प्रति
पेटेंट नियंत्रक
Controller of Patents

अनुदान की तारीख : 05/06/2024
Date of Grant :

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, अक्टूबर 2022 के सोलहवें 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 16th day of October 2022 and on the same day in every year thereafter.

*चूंकि पेटेंटी व आविष्कारकों की संख्या अधिक है, पेटेंटी व आविष्कारकों के नाम पृष्ठ संख्या 2 पर जारी है।

*Since the Number of Patentees / Inventors is more, the name of Patentees / Inventors are continued on Page No. 2



पेटेंट प्रमाणपत्र के लिए अनुलग्नक/Annexure to Patent Certificate

पेटेंट सं. / Patent No.

540863

आवेदन सं. / Application No.

202011045104

फाइल करने की तारीख / Date of Filing

16/10/2020

पेटेंटी / Patentee (जारी/Continued)

5.Dr. Garima Bakshi 6.Dr. Suyeb Ahmed Khan 7.Dr. Amandeep Verma 8.Dr. Puneet Jai Kaur 9.Er. Anshu Sharma 10.Er. Shilpa Sharma



BEFORE THE CONTROLLER OF PATENTS

The Patents Act 1970 (as amended)
And
The Patents Rules 2003 (as amended)

SECTION 15 & 43(1)

Application No.	202011045104
Application date	16/10/2020
Applicant name	Dr. Anurag Sharma Dr. Vikrant Sharma Dr. Love Kumar Dr. Harjit Pal Singh Dr. Garima Bakshi Dr. Suyeb Ahmed Khan Dr. Amandeep Verma Dr. Puneet Jai Kaur Er. Anshu Sharma Er. Shilpa Sharma
Title	IOT BASED HEALTHCARE QUEUE MANAGEMENT SYSTEM
Address of service in India	ENNOBLE IP, B-17, FIRST FLOOR, SECTOR 6, NOIDA-201301 (UP), INDIA
Request for Examination and date	R20201036737 ,23/11/2020

DECISION

1. The instant application was examined under Section 12 and 13 of Patents Act and First Examination Report (henceforth referred to as FER) containing a statement of objection was issued to applicant on : 02/02/2022 and the applicant filed their reply to FER on 02/08/2022.
2. Based on the reply to the FER, examination has been conducted de novo and following objections were outstanding.

Objections:

Definitiveness

1. In order to obtain a patent, an applicant must fully and particularly describe the invention therein claimed in a complete specification. The disclosure of the present alleged invention in a complete specification is not such that a person skilled in the art may be able to perform the invention. Hence it is require the applicant to submit models related to the invention for better illustration of the



invention as per section 10(3) of the Patents Act, 1970 (as amended). However, such models or samples shall not form part of the Specification.

Invention u/s 2(1)(j)

The applicant in reply mention that "Whereas, cited document D1, D2 & D3 don't mention the priority order based on which a patient is allocated a digital token....The present invention provides an alert facility to a patient regarding the turn to enter the healthcare facility, through vibration over the wearable band. The digital token allotment is based on QR codemechanism and all the signals are from sensors are processed through a raspberry pie controller unit...Whereas, cited document D1, D2 & D3 doesn't contain any such mechanism to eliminate chances of queue outside a healthcare center by systematically arranging the appointment of the patients.....Whereas, the cited document D4 doesn't contain any information regarding the use of QR code for smooth entry of outpatient waiting to see a doctor...Whereas, the cited document D4 doesn't contain any information regarding the use of QR code for smooth entry of outpatient waiting to see a doctor" where D1:US9974492B1 D2:US10388411B1 D3:US10560135B1 D4:CN203084808U Thre same is disclosed in D5:CN107016770A(refer abstract) D6:US20160203352A1(refer abstract and para 50 ,32) Thus, in the view of features described in D1-D6, the subject matter of Claims 1-6 is not inventive as it would be obvious to the person skilled in the art. Hence, as such does not constitute an invention u/s 2(1)(j) of The Patent Act, 1970(as amended).

Non-Patentability u/s 3

Subject matter of claims 1-6 falls within scope of clause (k) of section (3) of the Patents Act, 1970 (as amended) because it relates to computer program per se. Therefore invention claimed in these claims is not patentable.

Other Requirement(s)

1."The applicant is required to notify the controller at the earliest (3 days prior to hearing date) whether or not he will attend the hearing (Sub-rule 4 of Rule 28 of the Patents Rules and rule 129-A). If an authorized person with substitute PA is attending the hearing, the PA must be submitted before the date of hearing."

2. In case the applicant decides to amend the claims subsequent to this report, the same shall be drafted afresh to include the technical advancement over the prior art cited, in claim 1 as required u/s 2(1)(j) of the Patent's Act. Please indicate in the response communication the support for such amendments claims in the original specification, as required u/s 10(4) of the Act. Care shall be taken that requirement section 59 (1) of the Act is also met. Please provide an additional copy of marked up amendments (highlighting the amendments) where ever applicable.

Reference to co-pending/foreign application(s)

1.Filing of application in any country should be reflected in Form 3 within 6 months from corresponding date of filing.

2.Details regarding application for Patents which may be filed Months from the date of filing of the said application under clause(b) of sub section(1) outside India from time to Time for the same or



substantially the same invention should be furnished within Six of section 8 and rule 12(1) of Indian Patents Act.

Sufficiency of Disclosure u/s 10 (4)

1. In order to obtain a patent, an applicant must fully and particularly describe the invention therein claimed in a complete specification. The disclosure of the present alleged invention in a complete specification is not such that a person skilled in the art may be able to perform the invention. Hence it is requiring the applicant to submit models related to the invention for better illustration of the invention as per section 10(3) of the Patents Act, 1970 (as amended). However, such models or samples shall not form part of the Specification.

2. The invention and its operation or use and the method by which it is to be performed is not fully and particularly described in the complete specification. The complete specification should disclose the best method of performing the invention which is known to the applicant and for which he is entitled to claim protection.

Unity of Invention u/s 10 (5)

1. Multiple independent claims lack succinctness. Independent claims should be suitably linked with principal claim to make them clear, succinct and substantially definitive in accordance with the requirements of section 10(5) of The Patents Act 1970 as amended by the Patents (Amendment) Act 2005.

Hearing

A hearing letter with above mentioned objections was issued to applicant's agent on 22-03-2024 and hearing was scheduled on 09/04/2024, and conducted on 09/04/2024 and hearing submissions were made on 01/05/2024.

Hearing Submissions

Definitiveness

With regards to the above objection, the applicant submits that the as filed description fully and particularly describes the invention and the same can be acknowledged by cross referencing the paragraph numbers 0026-0042 along with the as filed figure 2, highlighting the flow chart. Further, the claims of the present invention have been revised to replace the system claim with the method claim. The revised claims are amply supported by the as filed description and no such discrepancy exist, if still required, as was allowed in case of 2495/MUM/2008, the applicant can provide additional illustrations of any part/aspect thereof. Marked up and amended copy of claims are enclosed with the response, thus requesting the Id. Controller to kindly waive of the above objection.

INVENTION U/S 2(1)(JA)

Primarily, the controller has acknowledged the novelty of the claims. In furtherance to above, the applicant submits that claims 1-6 have been amended and the amended claims 1-4, do involve inventive step under section 2 (1) (ja) of the Patent's Act in view of cited documents D1-D6. The



characterization of the present invention over the cited documents D1-D6 are as follows: For documents D1-D4, the applicant submits the same reply as was submitted during the FER reply: Characterization over cited document D1:US9974492B1; D2:US10388411B1 and D3:US10560135B1 D1, D2 and D3 relates to devices, systems and methods for reconfigurable and/or updatable lightweight embedded devices or systems are disclosed. Via use of such a device, system, or method, various capabilities for a user are provided, simplified, secured, and/or made more convenient. The system may interact with various other devices or systems, including those that are cloud-based or communicate through the cloud, and may utilize various local sensors, in order to provide one or more of improved access, monitoring, diagnostics, and so forth. (Abstract of D1, D2 & D3) The features of the present invention that are characteristically different from subject matter claimed in D1, D2 & D3 are explained as under – The present invention belongs to an IOT based healthcare queue management system comprising multiple wearable devices paired with a server with the help of an IOT module to enter and save patient's credentials, a virtual keyboard embodied within the device to aid the patient for typing purposes, multiple sensor inbuilt into the device for monitoring health parameters such as heart rate, blood pressure, oxygen level etc. of the patient(s), wherein the obtained data is transferred and saved into the server. A GPS module paired with the device to fetch real time location of a patient which is saved in respect to the pre-stored data containing patient's credentials and health status, a raspberry pie controller linked wirelessly with the server for generating a unique QR code based digital token number on the sequence of factors such as health criticality, patient age and then by the option of first come first serve. A scanning unit housed within a health care center used to authenticate the generated QR code and provide access to the patient to enter the facility. Whereas, cited document D1, D2 & D3 don't mention the priority order based on which a patient is allocated a digital token. Cited documents D1, D2 & D3 disclosure relates to systems and methods for purchasing one or more items using a user device (also called a "device" herein), which can be a mobile cellular device, such as a cell phone, tablet, personal computer, or the like. The present invention mentions an IOT based healthcare queue management system for efficiently monitoring the location, age and health care information of a patient to allocate a digital token considering all of the patient's information so that long queues can be avoided at healthcare centers and patients with severe illness can get treatment on priority. Whereas, the cited documents D1, D2 & D3 disclose exemplary systems and methods which can be used to easily and automatically purchase items from a nearby merchant. The purchase can be made without the need for a user to order or pay at the merchant location. The present invention provides an alert facility to a patient regarding the turn to enter the healthcare facility, through vibration over the wearable band. The digital token allotment is based on QR code mechanism and all the signals are from sensors are processed through a raspberry pie controller unit. The vital parameters measured for a patient are heart rate, blood pressure, oxygen level and temperature for entering the healthcare facility on priority. Whereas, cited document D1, D2 & D3 doesn't contain any such mechanism to eliminate chances of queue outside a healthcare center by systematically arranging the appointment of the patients. The present invention provides an option to the patient to cancel their appointment and reallocation of the token number to other prospective patients. The mechanism mentions that the virtual keypad may be employed with a slide to cancel option for canceling the token number allocated to the patient. Canceling the token number rearranges the token number accordingly in order to eliminate the waiting time. Whereas, cited document D1, D2 & D3 doesn't contain any such mechanism to cancel allocation of a digital token and re-allocate the same to next deserving patients waiting to enter the healthcare facility. Therefore, constructional as well as technical features of the



present invention are different from features of the system proposed in cited document D1, D2 & D3. Characterization over cited document D4: CN203084808U D4 discloses an utility model for outpatient waiting queue management system which comprises a server, a databank, a doctor working station terminal, a queue number caller and a waiting information display device, wherein the databank, the doctor working station terminal and the waiting information display device are all connected with the server; the queue number caller is installed at the doctor working station terminal and is connected with the waiting information display device; the server comprises a waiting management module, a further consultation management module and a time prediction module for estimating the time that a next patient waits for visiting a doctor. As the time prediction module is arranged in the server, the patient can conveniently and rapidly master the time for waiting for the doctor; and moreover as a special patient management is provided, the old, the weak, the patient and the disabled patients or emergency patients have the priority for treatment, so that the disease is not delayed; and in addition, due to the arrangement of a transfer consultation module, the patients can be reasonably and orderly allocated to different departments. By utilizing the outpatient waiting queue management system, the resource waste in hospitals is avoided, the change requirements of patients are met, and the image and the service quality of hospitals are improved. (Abstract of D4) The characteristic features of the present invention that are different from features of the cited document D4 are explained as under – The present invention discloses an IOT based healthcare queue management system comprising wearable devices worn by a patient connected to a server through an IOT module. The wearable unit uses multiple sensors for monitoring various health parameters and sends the data to the server, GPS module used to determine real time location, the controller connected with the server allocate digital token for hassle free entry into the appropriate healthcare facility to avoid long queues of patients. The present invention focuses on facilitating entry of needy patients based on their illness, age and finally on the basis of firstcome first-serve. Whereas cited document D4 discloses a utility model for outpatient services waiting to see the doctor, the time prediction module is set in the server, the time prediction module is connected with the prescription on individual diagnosis display device that is arranged at the hall of waiting to see the doctor which indicates that no preference is provided to terminally ill patients based on criticality or age. In cited document D4 it mentioned that the patient conveniently recognizes the time of own required wait, thereby reasonable distribution oneself time that being provided with of module can be rational and orderly carries out section office to the patient and distributes. The present invention discloses a QR code based digital token facility for patients that allows entry of patients in to the healthcare facility without any queue and patients who are already ill need not suffer any further waiting for treatment. Whereas, the cited document D4 doesn't contain any information regarding the use of QR code for smooth entry of outpatient waiting to see a doctor. Cited document D4 used a mechanism for calling out the numbers comprising a system provided with an enquiry module. The device of calling out the numbers install with doctor's station terminal on and link to each other with diagnosis information display device with server, the doctor calls out next patient by the assignment key that click the numbers on the module, this patient's registration form sequence number is shown in the diagnosis information display device for the convenience of the patient. The present invention mentions that in case there are two or more patients at the center, then the controller decides the priority on the basis of the medical status of the respective patient. The patient who requires faster treatment is given the token number earlier to the other patient. The priority of patients on the basis of health is determined with the help of pre-saved data into the center. Whereas no such facility is provided as



per cited document D4 to prioritize entry of patients completely based on the prevailing medical urgency. So that no patient should be traumatized due to the presence of a large number of patients at a common healthcare facility. The present invention mentions that a virtual keypad is provided with the wearable device for a patient to book or cancel entry in to a healthcare center from a remote location. The virtual keyboard embodied within the device to aid the patient for typing purposes. The wearable device is operated with the help of a touch screen integrated with the virtual keyboard. This keyboard is used by the patient(s) to enter their personal data such as name, address, mobile number etc. The wearable device is connected with the internet in such a manner that all the data that is entered into the device directly gets stored into a server. The virtual keypad is also employed with a slide to cancel option for canceling the token number allocated to the patient. Canceling the token number rearranges the token number accordingly in order to eliminate the waiting time. Whereas no such mechanism is found in cited document D4 to book or cancel an appointment from a remote location. This facility actually helps a patient to enter individual information in real time. Thus, inventive features of the present invention are different from features of cited document D4. Now, referring to the newly cited documents D5 & D6:

Characterization over cited document D5 & D6: Document D5, CN107016770A states that "The user can "print" the QR code displayed on the kiosk. In addition, the user may scan the QR code displayed on the kiosk device or the QR code printed on the printer via the user device." From the above statement, it shall be very clear that the document D5 allocates printed QR codes and not digital tokens, hence, keeping the entire document D5 into consideration, it would not be possible to alter/change the token number in real time based on the criticality or age of the patients. Even if priority based allocation was known, the document D5 does not disclose about any mechanism for real time change of the token number based on the criticality of the patient. As none of the features i.e., real time detection of patient's health and use of digital tokens are disclosed in the document. Due to this limitation, the patients with more critical situations will be left unattended. Whereas, in the present invention, "QR code based digital tokens are allocated", in case there are two or more patients at the center, then the controller decides the priority on the basis of the medical status of the respective patient. The patient who requires faster treatment is given the token number earlier to the other patient. The priority of patients on the basis of health is determined with the help of pre-saved data into the center. Further, there is no means/mechanism in document D5 to real time monitor the criticality of the patients. Document D6, US20160203352A1, discloses "mobile computer is adapted to include a scan client module for scanning and communicating scan-triggered service code information to a scan-triggered application server. QR code scanning is accomplished by a camera module that is associated with the smartphone or other mobile computing device. The scan-enabled client module communicates the scanned QR code information to an associated server application for collecting, processing and reporting scan data." The document D6 involves the QR code scanning unit instead of producing digital tokens, it involves a camera module that is associated with the smartphone for capturing QR codes for acquiring a particular information. However, similar to the document D5, the document D6 also does not disclose about any mechanism for real time change of the token number based on the criticality of the patient. As none of the features i.e., real time detection of patient's health and use of digital tokens are disclosed in the document. Due to this limitation, the patients with more critical situations will be left unattended. Whereas, in the present invention, "QR code based digital tokens are allocated", in case there are two or more patients at the center, then the controller decides the priority on the basis of the medical status of the respective patient. The patient who requires faster treatment is given the token number earlier



to the other patient. The priority of patients on the basis of health is determined with the help of pre-saved data into the center. Further, there is no means/mechanism in document D6 to real time monitor the criticality of the patients.

SUBMISSION FOR OBJECTION: NON-PATENTABILITY U/S 3

Section 3k pertains to what is not an invention within the meaning of the act and is read as follows: "a mathematical or business method or a computer programme per se or algorithms" Particularly, an algorithm is defined as 'a procedure for solving a mathematical problem (as of finding the greatest common divisor) in a finite number of steps that frequently involves repetition of an operation. Therefore, what is necessary for an invention to fall under ambit of 'algorithm' is that it must be solving a mathematical problem in finite number of steps and thus has no technical effect. The patent application does not attract the section 3 (k) of the Act, if they result in any 'technical contribution'. If the invention demonstrates a "technical effect" or a "technical contribution" it is patentable even though it is based on a computer program or algorithm. The term "technical effect"

shall be interpreted according to judicial precedents, pari materia provisions and practices of patent offices of foreign jurisdictions. However, referring to the claims of the present invention, it can be easily apprehended that no such mathematical/business method, computer program or algorithm is claimed. Instead, the present invention involves a unique combination of hardware and data/signal flow from one module to another which is producing the desired results and this unique combination of hardware is producing a unique technical effect. 1. Technical Problem: In current technology, the access to healthcare centers is done on first come first serve basis which causes critically ill patients to wait for their turn or accumulation of long queue outside the healthcare centers. 2. Technical Solution: The present invention shows technical effects in following manner: Consider all the parameters such as first arrival, criticality and age of patient for accordingly allocating digital tokens, thereby providing treatment to each and every critical and older age patient without missing anyone; and -eliminate chances of queue outside the healthcare center by systematically arranging the appointment of the patients. Adding to the above statements, the Guidelines for Examination of Computer Related Inventions (CRIs), 2017, at page 15, Section 4.5 states "patents are granted to inventions, whether products or processes, in all fields of technology, it is important to ascertain from the nature of the claimed Computer-related invention whether it is of a technical nature involving technical advancement as compared to the existing knowledge or having economic significance or both" & "if in substance, the claim, taken as whole, does not fall in any of the excluded categories, the patent should not be denied". Thus, the Applicant submits that determination of patentability of claims should be based on the substance of claims, over form, taking the whole of the claim together. In addition to the above, the Delhi High Court's decision in for assessing patentability in the case of Telefonaktiebolaget LM Ericsson Vs Intex Technologies (India) Limited (order in CS(OS) No.1045/ 2014 dated 13th March 2015) has held "Thus, it [is] appears to me prima facie that any invention which has a technical contribution or has a technical effect and is not merely a computer program per se as alleged by the defendant and the same is patentable. Further, as per the discussion in the hearing, the applicant has revised the claims of the present invention to the satisfaction of the Id. Controller, therefore, the applicant requests the Id. Controller to kindly reconsider the above objection. In view of the aforesaid, the applicant submits



that the present invention provides a technical solution to a technical problem and thus is out of purview of section 3 (k) Indian Patents Act, 1970. Hence, withdrawal of the objection is therefore requested.

Other Requirement(s)

1.The applicant has duly complied with the requirement, hence, requesting waiver of the above objection.

2. The claims of the present invention have been suitably revised. The Marked up and amended copy of claims is enclosed with the response. The amendments have been performed by a way of correction, having support of originally filed detailed description of the invention as allowed under section 59 of the Indian Patent's Act. Further, it is hereby affirmed that no new subject matter has been added beyond the scope of the instant application and the amendments have been performed in compliance to section 57/59 of the Patent's Act.

Reference to co-pending/foreign application(s)

In view of the above objection, the applicant submits that no corresponding application has been filed outside India and hence no such particulars of foreign filing are available with the applicant. However as per compliance of Section 8 and Rule 12, the applicant submits an updated copy of form 3 annexed with the response. Withdrawal of the above objection is therefore requested.

SUBMISSION FOR OBJECTION: SUFFICIENCY OF DISCLOSURE U/S 10 (4)

With regards to the above objection, the applicant submits that the as filed description fully and particularly describes the invention and the same can be acknowledged by cross referencing the paragraph numbers 0026-0042 along with the as filed figure 2, highlighting the flow chart. Further, the claims of the present invention have been revised to replace the system claim with the method claim. The revised claims are amply supported by the as filed description and no such discrepancy exist, if still required, as was allowed in case of 2495/MUM/2008, the applicant can provide additional illustrations of any part/aspect thereof. Marked up and amended copy of claims are enclosed with the response, thus requesting the Id. Controller to kindly waive of the above objection.

Unity of Invention u/s 10 (5)

In view of the above objection, the applicant submits that the claims have been amended and the amended claims, recite only one independent claim. Marked up and amended copy of claims are annexed with the response, thus, the applicant requests the Id. Controller to kindly reconsider and waive of the above objection.

Analysis



All objections were discussed in hearing. The applicant had delineated the advancement of the present invention from the cited prior arts. The present invention is an IOT based health care queue management system for continuously monitoring the location, age and health care information of the patient in order to allocate digital tokens considering all of the detected information. The features of the instant invention is not disclosed in any of the prior art documents.

Decision

Based on the above facts, submission and observations in the case, all objections have been met. Therefore I proceed with grant of patent for the instant patent application no. 202011045104 with four (4) claims given in the document filed on 01/05/2024 with nomenclature 202011045104-Written submissions and relevant documents [01-05-2024(online)].pdf.

Dated 5th June 2024

(Pratik Sharad Hendre).

Assistant Controller of Patents & Designs.





Criteria 3.4.2

E- Copies of Granted patents

2021-22



Criteria 3.4.2

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2022-23

Urkunde

über die Eintragung des
Gebrauchsmusters Nr. 20 2022 104 803

Bezeichnung:

Formulierung und Bewertung eines Kräutergels aus Withania Somnifera-Extrakt

IPC:

A61K 36/81

Inhaber/Inhaberin:

Gautam, Archana, New Delhi, IN
Kaur, Kuljinder, Dr., Sonipat, Haryana, IN
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Tag der Anmeldung:

25.08.2022

Tag der Eintragung:

12.09.2022

Die Präsidentin des Deutschen Patent- und Markenamts

Cornelia Rudloff-Schäffer

Cornelia Rudloff-Schäffer

München, 12.09.2022



Controller General of Patents, Designs and Trademarks
Department of Industrial Policy and Promotion
Ministry of Commerce and Industry

Design Application Details

Application Number:

370643-001

Cbr Number:

205848

Cbr Date:

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Applicant Name:

1. Dr. Deevanshu Shrivastava
2. Dr. Aarushi Kataria
3. Ms. Anuradha
4. Nisha Nandal
5. Gauraangi Praakash
6. Dr. Sumin Prakash
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8. Dr. Naveen Nandal
9. Dr. Neelam Rani

Design Application Status

Application Status:

Design Accepted and Published, Journal No is 51/2022 and Journal Date is 23/12/2022

[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, भारत सरकार | The Patent Office, Government Of India
डिजाइन के पंजीकरण का प्रमाण पत्र | Certificate of Registration of Design

डिजाइन सं. / Design No. : 386727-001
तारीख / Date : 22/05/2023
पारस्परिकता तारीख / Reciprocity Date* :
देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो *CARBON EMISSION CONTROLLER CHAMBER* से संबंधित है, का पंजीकरण, श्रेणी 23-04 में 1.Dr. Harshvardhan P. Ghongade 2. Dr. Akhilesh Kumar Mishra 3.Dr. Anjali Ashokrao Bhadre 4.Akash Malik 5.Arun Kumar 6.Mr. Mohit Gupta 7.Varsha Khetrapal Kumar 8.Mandeep Kaur 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 23-04 in respect of the application of such design to *CARBON EMISSION CONTROLLER CHAMBER* in the name of 1.Dr. Harshvardhan P. Ghongade 2. Dr. Akhilesh Kumar Mishra 3.Dr. Anjali Ashokrao Bhadre 4.Akash Malik 5.Arun Kumar 6.Mr. Mohit Gupta 7.Varsha Khetrapal Kumar 8.Mandeep Kaur.

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

जारी करने की तिथि : 04/09/2023
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.



Criteria 3.4.2

E- Copies of Granted patents

2023-24



Intellectual
Property
Office

Certificate of Registration for a UK Design

Design number: 6295890

Grant date: 20 July 2023

Registration date: 12 July 2023

This is to certify that,

in pursuance of and subject to the provision of Registered Designs Act 1949, the design of which a representation or specimen is attached, had been registered as of the date of registration shown above in the name of

Prof. (Dr.) Mohan Prasad Sharma, Ms. Nikita Tomar, Dr. Garima Parkash, Prof.

(Chef) Subhadip Majumder, Mr. Priyesh Srivastava, Mr. Yazuvendra Singh, Dr.

Saurav Chhabra

in respect of the application of such design to:

Device to Identify Customer Emotional Behaviour for Hospitality Industry

International Design Classification:

Version: 14-2023

Class: 10 CLOCKS AND WATCHES AND OTHER MEASURING INSTRUMENTS, CHECKING AND SIGNALLING INSTRUMENTS

Subclass: 05 INSTRUMENTS, APPARATUS AND DEVICES FOR CHECKING, SECURITY OR TESTING

Adam Williams

Comptroller-General of Patents, Designs and Trade Marks
Intellectual Property Office

The attention of the Proprietor(s) is drawn to the important notes overleaf.

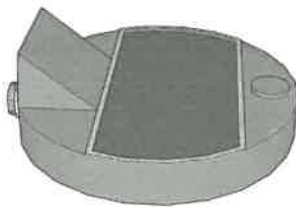
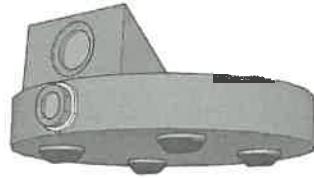


Intellectual Property Office is an operating name of the Patent Office

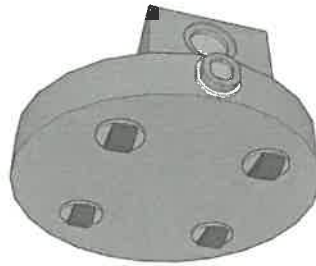
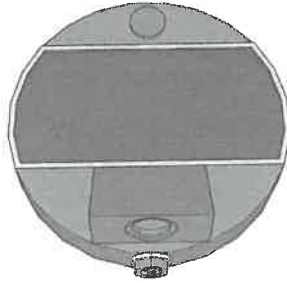
Saurav Chhabra
Vatel Hotel & Tourism Business School
Sushant University
Sector-55, Gurugram



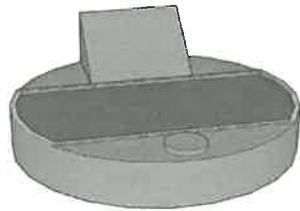
Representation of Designs



G. Anand Chhabra
Vatel Hotel & Tourism Business School
Sustant University
Sector-55, Gurug



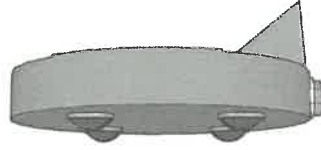
Gourav Chhabra
Vatel Hotel & Tourism Business School
Sushant Unive
Sector-55, Gur



Dr. Anurag Chhabra
Vatel Hotel & Tourism Business School
Sushant University
Sector-55, Gurgaon



Dr. Anurag Chhabra



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Vatel Hotel & Tourism Business School
Sushant City
Sector-55





Intellectual
Property
Office

Certificate of Registration for a UK Design

Design number: 6292553

Grant date: 25 August 2023

Registration date: 27 June 2023

This is to certify that,

in pursuance of and subject to the provision of Registered Designs Act 1949, the design of which a representation or specimen is attached, had been registered as of the date of registration shown above in the name of

Viveka Nand Sharma , Atanu Bhattacharya, Saurav Chhabra, Ajay Pratap Singh,

Chandana Paul, Manoj Srivastava, Nakuleshwar Dut Jasuja, Bhavana Ray

in respect of the application of such design to:

Data Processing Equipment

International Design Classification:

Version: 14-2023

Class: 14 RECORDING, TELECOMMUNICATION OR DATA PROCESSING EQUIPMENT

Subclass: 02 DATA PROCESSING EQUIPMENT AS WELL AS PERIPHERAL APPARATUS AND DEVICES

Adam Williams

Comptroller-General of Patents, Designs and Trade Marks

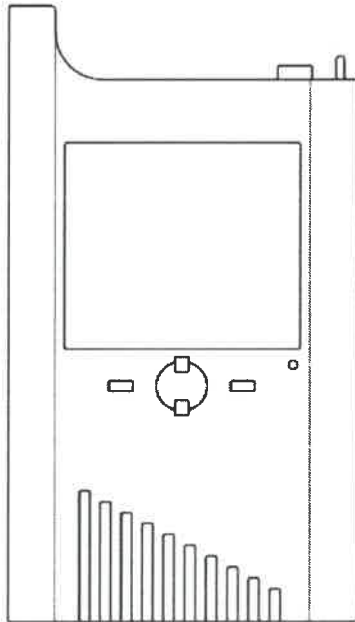
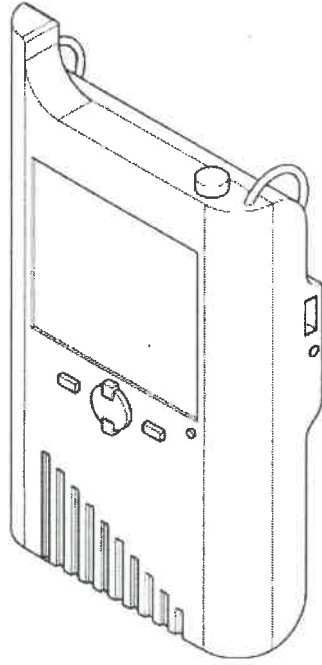
Intellectual Property Office

The attention of the Proprietor(s) is drawn to the important notes overleaf.



Saurav Chhabra
Vatel Hotel & Tourism Business School
Sushant University
Sector-55, Gurgaon





Dr. Anurag Chhabra
Vatel Hotel & Tourism Business School
Seshant University
Sector-55, Gurugram

Handwritten signature in blue ink.





Office of the Controller General of Patents, Designs & Trade Marks
Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

(<http://ipindia.nic.in/index.htm>)



(<http://ipindia.nic.in/index.htm>)

Application Details

APPLICATION NUMBER	201711040039
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	09/11/2017
APPLICANT NAME	DR. SUNIL KUMAR MAHLA
TITLE OF INVENTION	A PROCESS OF PRODUCTION OF BIODIESEL FROM RICE BRAN OIL BY TRANSERSTERIFICATION AND PROCESS OPTIMIZATION
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As Per Record)	ashish.iprindia@hotmail.com
ADDITIONAL-EMAIL (As Per Record)	ashish.iprindia@hotmail.com
E-MAIL (UPDATED Online)	ashish.iprindia@hotmail.com,ashish.iprindia@hotmail.com
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	03/01/2022
PUBLICATION DATE (U/S 11A)	01/12/2017
FIRST EXAMINATION REPORT DATE	30/08/2022
Date Of Certificate Issue	28/03/2024
POST GRANT JOURNAL DATE	05/04/2024
REPLY TO FER DATE	27/02/2023

Application Status

APPLICATION STATUS

Granted Application, Patent Number :530732

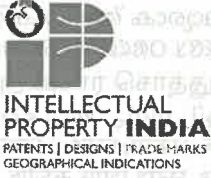
[E-Register](#)

[Order\(s\)/Decision\(s\)](#)

[View Documents](#)

➡ Filed ➡ Published ➡ RQ Filed ➡ Under Examination ➡ Disposed

In case of any discrepancy in status, kindly contact lpo-helpdesk@nic.in



क्रम सं/SL No :011206950



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.

530732

आवेदन सं. / Application No.

201711040039

फाइल करने की तारीख / Date of Filing

09/11/2017

पेटेंटी / Patentee

DR. SUNIL KUMAR MAHLA

आविष्कारकों का नाम /Name of Inventor(s)

1.DR. SUNIL KUMAR MAHLA 2.KANWAR JABAR SINGH GILL
3.NEHA GUPTA 4.RAJESH DUDI 5.SOMEET SINGH 6.DR.
AMIT DHIR 7.GEETESH GOGA

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित *A PROCESS OF PRODUCTION OF BIODIESEL FROM RICE BRAN OIL BY*

TRANSERSTERIFICATION AND PROCESS OPTIMIZATION नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख नवम्बर 2017 के नौवें 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 *A PROCESS OF PRODUCTION OF BIODIESEL FROM RICE BRAN OIL BY*

TRANSERSTERIFICATION AND PROCESS OPTIMIZATION as disclosed in the above mentioned application for the term of 20 years from the 9th day of November 2017 in accordance with the provisions of the Patents Act,1970.



उपरोक्त की संज्ञित
पेटेंट नियंत्रक
Controller of Patents

अनुदान की तारीख : 28/03/2024
Date of Grant :

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, नवम्बर 2019 के नौवें 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 9th day of November 2019 and on the same day in every year thereafter.

The Patents Act, 1970 (as amended)

Section 15

Decision

Ref. No: POM/Application No. **201711040039**
Patent Application No: **201711040039**

Date: 28/03/2024

Applicant/s: **DR. SUNIL KUMAR MAHLA**, having address of **Department of Mechanical Engineering, I.K. Gujral Punjab Technical University Campus, Hoshiarpur, PUNJAB, INDIA**

TECHNICAL DECISION

The Applicant filed this application No. **201711040039** for the grant of patent on 09/11/2017 for the invention titled "**A PROCESS OF PRODUCTION OF BIODIESEL FROM RICE BRAN OIL BY TRANS-ESTERIFICATION AND PROCESS OPTIMIZATION**".

In this matter, the facts that have come to my knowledge and made available to me can be traced as follows:

Applicant has amended the original claim 1 by way of characterisation and adding features of claim 2 to 6 and from specification with Form 13 whereas Claims 2 to 6 are deleted to have currently single amended claim 1 filed with reply to hearing filed on 22/03/2024. These amended claim/s are fully considered herein.

SCIENTIFIC AND TECHNICAL DECISION

Scientific and Technical Decision by Controller are based on Scientific and Technical Analysis as the Patent Office is involved directly in scientific and technical service, human resource product link through scientific and technical information analysis by way of examination of patent applications and making scientific reports which facilitates the general public about the available state of art of the relevant technical field, disseminating information through library and information centre which is the minimum criteria of Patent documentation program on international level, providing guidelines for

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Deputy Controller
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Sector: 55, Gurugram

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examination of patent application in the field of Biotechnology, traditional knowledge, computer related inventions and pharmaceuticals. The Department of Science and technology Govt. of India was established with the objective of promoting new areas of Science & Technology and to play the role of a nodal department for organizing, co-ordinating and promoting scientific and technical activities in the country. As per the OM dated 28.5.1986, the Patent Office has been recognized as a scientific and technical organization by the DST, which is recorded in the OM dated 6.11.1987 and the said position continues till date. Patent Examiner/ Controller has to critically examine the precise scientific and/or technological nature and scope of the invention which is subject of the patent application; thereafter search through many prior publications, critically study the scientific and technological disclosures made therein; compare the invention claimed by the application with the scientific and technological disclosures and ascertain whether the invention claimed by the applicant is "patentable". It is a known fact that an invention is often the result of research activities undertaken by an inventor. The Patent Examiner assesses, after careful study of all the material whether the invention which is result of research activities, is a patentable invention within the Patents Act. The Controller/Examiner, while assessing the patentability of the invention, also holds technical discussions/ hearing with the inventor/inventor's patent agent.

WHAT IS FACT / PARAGRAPHS OF CITED DOCUMENTS:

Based on disclosure of cited documents D1:
<http://pnrsolution.org/Datacenter/Vol4/Issue1/65.pdf>; D2:
<https://doi.org/10.1080/17597269.2016.1163210>, D3: <https://doi.org/10.1021/ef700510a>,
D4: WO2015142211A1, D5: WO2007113530A2, and D6: US20120297665A1, and
carrying out scientific and technical analysis of documents D1:
<http://pnrsolution.org/Datacenter/Vol4/Issue1/65.pdf>; D2:
<https://doi.org/10.1080/17597269.2016.1163210>, D3: <https://doi.org/10.1021/ef700510a>,
D4: WO2015142211A1, D5: WO2007113530A2, and D6: US20120297665A1 in
Combination Only, for Inventive Step is analyzed for current amended Claim 1 and
Dependent Claims.

None of the cited documents as above discloses A process of production of biodiesel from rice bran methyl ester (RBME) oil by transesterification and process of optimization comprising the steps of: Carrying transesterification reaction out in a 2-litre

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three-neck glass reactor equipped with temperature indicator, reflux condenser and at yariac for temperature-controlled oil bath; performing optimization with 0.5-1.5% w/w of catalyst amount; 3:1-12:1 methanol to oil molar ratio; and 50°C -65°C reaction temperature for 30-90 mins; wherein the optimized conditions for biodiesel production are 1% wt. of catalyst (NaOH), 6:1 methanol to oil molar ratio, 60°C room temperature, and 85 minutes as duration for reaction temperature; so as to biodiesel yield of 97.4% is obtained; characterized in that after transesterification reaction, the mixture is then allowed to settle in a separating funnel for overnight so as to separate the glycerol; and after settling of glycerol, the remainder upper layer of methyl ester was washed with distilled water 3-4 times to remove catalyst and excess methanol; and it is then heated at 120°C to remove the traces of moisture; so as to rice bran methyl ester (RBME) so obtained is cooled and stored.

Further argument made by applicant for characterised technical features that “ after transesterification reaction, the mixture is then allowed to settle in a separating funnel for overnight so as to separate the glycerol; and after settling of glycerol, the remainder upper layer of methyl ester was washed with distilled water 3-4 times to remove catalyst and excess methanol; and it is then heated at 120°C to remove the traces of moisture; so as to rice bran methyl ester (RBME) so obtained is cooled and stored” have not been taught or disclose in cited documents herein.

Hence, Invention claimed in Patent Application No. **201711040039** is Novel as well as Inventive.

CONCLUSION:

Based on above, objections raised vide the Hearing Notice dated 03/01/2024 has been met. Hence, I hereby proceed to grant the patent application no. **201711040039** under section 15 of the Patents Act, 1970 (as amended).

Dated: 28/03/2024

Mangesh L. Mokashi

Deputy Controller of Patents and Designs



3

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Sector 55, Gurugram

Documents Considered/ Reference made as:

- 1) D1: <http://pnrsolution.org/Datacenter/Vol4/Issue1/65.pdf>; D2:
<https://doi.org/10.1080/17597269.2016.1163210>, D3: <https://doi.org/10.1021/ef700510a>, D4:
WO2015142211A1, D5: WO2007113530A2, and D6: US20120297665A1
2) Written submissions with amended claims and relevant documents filed on **22/03/2024**.



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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. : 391373-001
तारीख / Date : 28/07/2023
पारस्परिकता तारीख / Reciprocity Date* :
देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **ARTIFICIAL INTELLIGENCE BASED MENTAL HEALTH DIAGNOSTIC DEVICE** से संबंधित है, का पंजीकरण, श्रेणी 14-02 में 1.Meenakshi Gupta 2. Rinky Ahuja 3.Dr. Sanjeev Gour 4.Dr. V. Subedha 5.Dr. Karuna Pandit 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 14-02 in respect of the application of such design to **ARTIFICIAL INTELLIGENCE BASED MENTAL HEALTH DIAGNOSTIC DEVICE** in the name of 1.Meenakshi Gupta 2. Rinky Ahuja 3.Dr. Sanjeev Gour 4.Dr. V. Subedha 5.Dr. Karuna Pandit.

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


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


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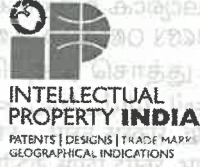
जारी करने की तिथि :
Date of Issue : 26/09/2023




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.



ORIGINAL
क्रम सं/ Serial No. : 157850



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. 381220-001

तारीख / Date 10/03/2023

पारस्परिकता तारीख / Reciprocity Date*

देश / Country

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **COG THREADED DRIVER OF COASTER BRAKE HUB FOR BICYCLE** से संबंधित है, का पंजीकरण, श्रेणी 12-11 में 1.Dr. Poonam Tanwar 2. Dr. Rosy Madaan 3.Ms. Bindu Thakral 4.Ms. Diana Jeba Jingle 5.Mr. Daniel Francis Selvaraj. J 6.Mr. Yogesh Kumar 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 12-11 in respect of the application of such design to **COG THREADED DRIVER OF COASTER BRAKE HUB FOR BICYCLE** in the name of 1.Dr. Poonam Tanwar 2. Dr. Rosy Madaan 3.Ms. Bindu Thakral 4.Ms. Diana Jeba Jingle 5.Mr. Daniel Francis Selvaraj. J 6.Mr. Yogesh Kumar.

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

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



जारी करने की तिथि :
Date of Issue : 21/02/2024



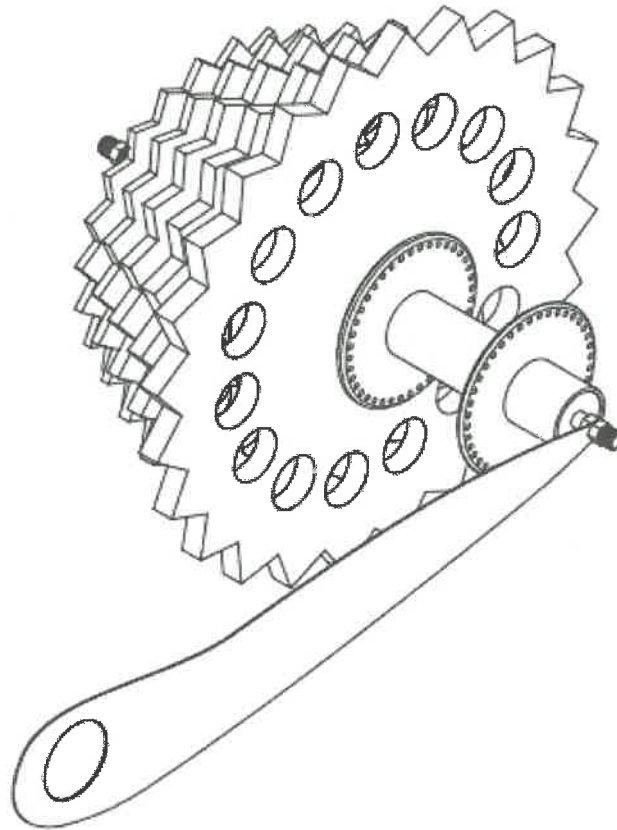
इनात की मंडिव

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Design Application Details



Publication Image

Design Number: 381220-001
Filing Date: 10/03/2023 17:27:22
Article Name: COG THREADED DRIVER OF COASTER BRAKE HUB FOR BICYCLE
Class: 12-11-CYCLES AND MOTORCYCLES
Journal Number: 08/2024
Journal Date: 23/02/2024 00:00:00

Applicant Detail

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Applicant Detail

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क्रम सं/ Serial No. : 182042



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. : 427883-001

तारीख / Date : 22/08/2024

पारस्परिकता तारीख / Reciprocity Date* :

देश / Country

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **HYDRAULIC ROBOT FOR CIVIL CONSTRUCTION** से संबंधित है, का पंजीकरण, श्रेणी 15-04 में 1.Dr. Basanta Kumar Bhuyan 2. Vineeta Pal 3.Dr. Rekha Tarasingh Rajput 4.Dr. Shivani Dubey 5.Dr. Archana Sharma 6.Ajay Dixit 7.Dr. Neha Gupta 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 15-04 in respect of the application of such design to **HYDRAULIC ROBOT FOR CIVIL CONSTRUCTION** in the name of 1.Dr. Basanta Kumar Bhuyan 2. Vineeta Pal 3.Dr. Rekha Tarasingh Rajput 4.Dr. Shivani Dubey 5.Dr. Archana Sharma 6.Ajay Dixit 7.Dr. Neha Gupta.

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

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



जारी करने की तिथि : 04/10/2024
Date of Issue



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