

INFORMATION OF DESIGN PATENT GRANTED

TITLE: - IOT BASED SOLAR OPERATED DEHYDRATION SYSTEM

INNOVATORS: -

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3. Shubham Raju Aigole
4. Shubham Suryakant Bhore
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SUMMARY: -

In a solar dehydration, the heat of the sun is first captured by the solar collector and the dryer chamber. Consequently, the ambient air that flows through the solar collector is heated, and then enters the drying chamber. After drying, the air has become humid and is discharged from the drying chamber. The solar collector unit is very useful for obtaining air with higher temperature, Existing solar dehydration machines are meant for drying vegetables which are heavier, costly. In this innovation hybrid indirect type solar dehydration system is design and tested, this is more efficient than other indirect type Solar Dehydration System. It is a combination of energy storage material, IR bulb, and IOT application is used to monitor its parameters. This is an innovative system that combines three technologies makes it more efficient than other dehydration system. This incorporates phase change material for heating after sun set and IR bulbs are used for drying at night time, these IR bulbs emits heat, above all arrangement makes it workable 24 hours.

Keywords- Indirect Type, Hybrid Type, Sun Drying, PCM, IR Bulb, IOT.

PERSPECTIVE VIEW





ORIGINAL

एम. टी. Serial No. - 100979



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. : 382189-001

तारीख / Date : 08/04/2022

पारस्परिकता तारीख / Reciprocity Date* :

देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो IOT BASED SOLAR OPERATED DEHYDRATION SYSTEM से संबंधित है, का पंजीकरण, श्रेणी 15-03 में 1.Chetan Vijaykumar Papade 2. Aditya Dashrath Gaikwad 3.Shubham Raju Aigole 4.Shubham Suryakant Bhore 5.Satish Govardhan Adam 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 15-03 in respect of the application of such design to IOT BASED SOLAR OPERATED DEHYDRATION SYSTEM in the name of 1.Chetan Vijaykumar Papade 2. Aditya Dashrath Gaikwad 3.Shubham Raju Aigole 4.Shubham Suryakant Bhore 5.Satish Govardhan Adam.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अधीन प्रवधानों के अनुसरण में।

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



उत्पादक पेटेंट, डिजाइन और व्यापार चिह्न

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जारी करने की तिथि : 29/01/2025
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