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Patent Search

Invention Title	ELONGATED HEXAGONAL PYRAMID SHAPED PORTABLE SOLAR DRYER
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Inventor

Name	Address	Country
T.Rajamanikandan	Assistant Professor, Department of EEE, Kongunadu College of Engineering and Technology, Namakkal-Trichy Main Road, Tholurpatti (P.O), Thottiam Taluk,Trichy 621215.	India
P.Arul	Professor and Head, Department of EEE, Kongunadu College of Engineering and Technology, Trichy - 621215.	India
R. Gopalakrishnan	Assistant Professor, Department of EEE, Kongunadu College of Engineering and Technology, Trichy - 621215.	India
B.Saranya	Assistant Professor Department of Civil Engineering Kongunadu College of Engineering and Technology, Trichy - 621215.	India
S.Pradeevraj	Department of EEE, Kongunadu college of Engineering and Technology, Trichy-621215.	India
A.Vairamani	Department of EEE, Kongunadu college of Engineering and Technology, Trichy- 621215.	India
T.Ravikumar	Department of EEE, Kongunadu college of Engineering and Technology, Trichy - 621215.	India
P.Sathishkumar	Department of EEE, Kongunadu college of Engineering and Technology, Trichy-621215.	India

Applicant

Name	Address	Country
T.Rajamanikandan	Assistant Professor, Department of EEE, Kongunadu College of Engineering and Technology, Namakkal-Trichy Main Road, Tholurpatti (P.O), Thottiam Taluk,Trichy 621215.	India

Abstract:

The elongated hexagonal pyramid shaped portable (EHPP) solar dryer is made up of mild steel square pipe, PET sheet. The EHPP solar dryer is mainly consists of three parts, i) Elongated pyramid shaped top chamber, ii) Elongated hexagonal shaped bottom chamber and iii) Electronic controller setup. Wherein the advantages of the hexagonal pyramid shaped portable solar dryer are i) Uniform hot air spreads to entire dryer, ii) 24x7 operation is possible, iii) Easy portability and iv) Less weight and v) Less drying time.

Complete Specification

[0001] The present invention relates to agricultural equipment more particularly to a elongated hexagonal pyramid shaped portable solar dryer (EHPPSD) for drying the fruits, vegetables and greens.

BACKGROUND OF THE INVENTION

[0002] Many types of solar dryers are available in market but most of the dryers are day time dryers and remaining dryers are single chamber dryers. Similarly, most of the dryers are having analog open loop system to control and monitor the moisture and temperature. Most importantly, olden dryers are not spread the hot air uniformly to the entire dryer. These kinds of dryers are to take more time for drying the fruits and vegetables and also fruits and vegetables are not dried uniformly.

[0003] This invention gives the solution to the specified problems, there are six thermostats which are placed in various places of the dryers to measure the temperature of the dryer. It will measure the temperature in each face of the dryer and it will be controlled using arduino controller using heater, exhaust fan and ventilation duct.

OBJECTIVE OF THE INVENTION

[0004] The main objective of the invention is to develop a device of elongated hexagonal pyramid

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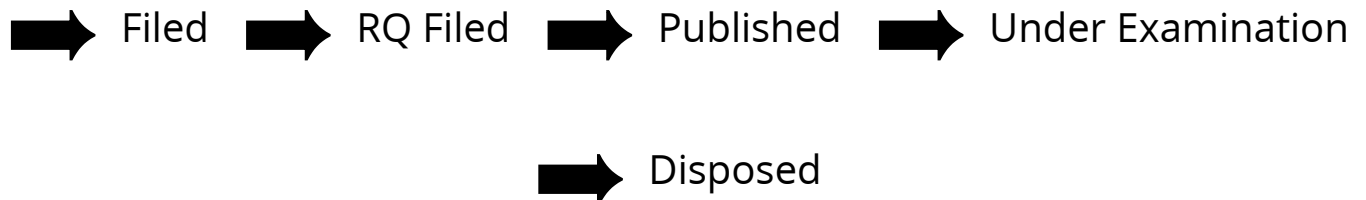
Application Details

APPLICATION NUMBER	201841025031
APPLICATION TYPE	ORDINARY APPLICATION
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APPLICANT NAME	T.Rajamanikandan
TITLE OF INVENTION	ELONGATED HEXAGONAL PYRAMID SHAPED PORTABLE SOLAR DRYER
FIELD OF INVENTION	ELECTRICAL
E-MAIL (As Per Record)	girijasram@gmail.com
ADDITIONAL-EMAIL (As Per Record)	mvtbharatham@gmail.com
E-MAIL (UPDATED Online)	
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Application Status

APPLICATION STATUS

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THE PATENT OFFICE**

**पेटेंट प्रमाणपत्र
PATENT CERTIFICATE**
(Rule 74 of The Patents Rules)

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पेटेंट सं. / Patent No. : 421954
आवेदन सं. / Application No. : 201841025031
फाइल करने की तारीख / Date of Filing : 05/07/2018
पेटेंटी / Patentee : T.Rajamanikandan

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित ELONGATED HEXAGONAL PYRAMID SHAPED PORTABLE SOLAR DRYER नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख जुलाई 2018 के पांचवें 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 ELONGATED HEXAGONAL PYRAMID SHAPED PORTABLE SOLAR DRYER as disclosed in the above mentioned application for the term of 20 years from the 5th day of July 2018 in accordance with the provisions of the Patents Act, 1970.



अनुदान की तारीख : 16/02/2023
Date of Grant :

पेटेंट नियंत्रक
Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, जुलाई 2020 के पांचवें 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 5th day of July 2020 and on the same day in every year thereafter.