



Patent Search

Invention Title	SMART AGRI BOT FOR MULTI - CROP HARVESTING
Publication Number	10/2024
Publication Date	08/03/2024
Publication Type	INA
Application Number	202441011222
Application Filing Date	18/02/2024
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	ELECTRONICS
Classification (IPC)	B25J0009160000, G06Q0010060000, A01G0007060000, B25J0011000000, A23B0007154000

Inventor

Name	Address	Country
Dr.D.R.P.RAJARATHNAM	PROFESSOR/HEAD, DEPARTMENT OF MECHATRONICS, PAAVAI ENGINEERING COLLEGE, PACHAL -637018, NAMAKKAL, TAMILNADU	India
PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)	NH-44, PACHAL - 636018, NAMAKKAL, TAMIL NADU, INDIA	India
Dr. R. PICHAILAKSHMI	ASSISTANT PROFESSOR, DEPARTMENT OF MATHEMATICS, SCHOOL OF ENGINEERING AND TECHNOLOGY, DHANALAKSHMI SRINIVASAN UNIVERSITY, TIRUCHIRAPPALI - 621112, TAMILNADU, INDIA MOBILE : 8124133788	India
Dr. K. AKILANDESWARI	ASSISTANT PROFESSOR, DEPARTMENT OF MATHEMATICS, SCHOOL OF ENGINEERING AND TECHNOLOGY, DHANALAKSHMI SRINIVASAN UNIVERSITY, Tiruchirappalli -621112, TAMIL NADU, INDIA 9597382209	India
Dr. P. DINESHKUMAR	ASSISTANT PROFESSOR, DEPARTMENT OF AGRICULTURAL ENGINEERING, 6213 - KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY, TRICHY-621215. 9578553349	India
SANKAR. A	ASSISTANT PROFESSOR, DEPARTMENT OF AGRICULTURAL ENGINEERING, 6105 - DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY, SALEM. 9003447517	India
R. ALEX ARPUTHANATHAN	ASSISTANT PROFESSOR DEPARTMENT OF MECHANICAL ENGINEERING ADITHYA INSTITUTE OF TECHNOLOGY, COIMBATORE 6382221345	India
Dr. P. SAMEERABANU	ASSISTANT PROFESSOR, DEPARTMENT OF MATHEMATICS, SCHOOL OF ENGINEERING AND TECHNOLOGY, DHANALAKSHMI SRINIVASAN UNIVERSITY, TIRUCHIRAPPALI - 621112 TAMILNADU, INDIA 8760625989	India
Dr.K.INDIRAJITH	ASSISTANT PROFESSOR, DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING, DHANALAKSHMI SRINIVASAN UNIVERSITY, TRICHY - 621112 TAMILNADU, INDIA 8610588669	India
Dr.P.PUGALENTHI	ASSOCIATE PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, PAAVAI ENGINEERING COLLEGE (AUTONOMOUS), NH-44, PACHAL - 636018, NAMAKKAL, TAMIL NADU, INDIA	India
R. KRISHVA	U.G STUDENT/ MECHATRONICS, PAAVAI ENGINEERING COLLEGE, NAMAKKAL.	India
R. DHIVAKARAN	U.G STUDENT/ MECHATRONICS, PAAVAI ENGINEERING COLLEGE, NAMAKKAL.	India
S.PARTHIBAN	U.G STUDENT/ MECHATRONICS, PAAVAI ENGINEERING COLLEGE, NAMAKKAL.	India

Applicant

Name	Address	Country
Dr.D.R.P.RAJARATHNAM	PROFESSOR/HEAD, DEPARTMENT OF MECHATRONICS, PAAVAI ENGINEERING COLLEGE, PACHAL -637018, NAMAKKAL, TAMILNADU	India
PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)	NH-44, PACHAL - 636018, NAMAKKAL, TAMIL NADU, INDIA	India
Dr. R. PICHAILAKSHMI	ASSISTANT PROFESSOR, DEPARTMENT OF MATHEMATICS, SCHOOL OF ENGINEERING AND TECHNOLOGY, DHANALAKSHMI SRINIVASAN UNIVERSITY, TIRUCHIRAPPALI - 621112, TAMILNADU, INDIA MOBILE : 8124133788	India
Dr. K. AKILANDESWARI	ASSISTANT PROFESSOR, DEPARTMENT OF MATHEMATICS, SCHOOL OF ENGINEERING AND TECHNOLOGY, DHANALAKSHMI SRINIVASAN UNIVERSITY, Tiruchirappalli -621112, TAMIL NADU, INDIA 9597382209	India
Dr. P. DINESHKUMAR	ASSISTANT PROFESSOR, DEPARTMENT OF AGRICULTURAL ENGINEERING, 6213 - KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY, TRICHY-621215. 9578553349	India
SANKAR. A	ASSISTANT PROFESSOR, DEPARTMENT OF AGRICULTURAL ENGINEERING, 6105 - DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY, SALEM. 9003447517	India
R. ALEX ARPUTHANATHAN	ASSISTANT PROFESSOR DEPARTMENT OF MECHANICAL ENGINEERING ADITHYA INSTITUTE OF TECHNOLOGY, COIMBATORE 6382221345	India
Dr. P. SAMEERABANU	ASSISTANT PROFESSOR, DEPARTMENT OF MATHEMATICS, SCHOOL OF ENGINEERING AND TECHNOLOGY, DHANALAKSHMI SRINIVASAN UNIVERSITY, TIRUCHIRAPPALI - 621112 TAMILNADU, INDIA 8760625989	India
Dr.K.INDIRAJITH	ASSISTANT PROFESSOR, DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING, DHANALAKSHMI SRINIVASAN UNIVERSITY, TRICHY - 621112 TAMILNADU, INDIA 8610588669	India
Dr.P.PUGALENTHI	ASSOCIATE PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, PAAVAI ENGINEERING COLLEGE (AUTONOMOUS), NH-44, PACHAL - 636018, NAMAKKAL, TAMIL NADU, INDIA	India
R. KRISHVA	U.G STUDENT/ MECHATRONICS, PAAVAI ENGINEERING COLLEGE, NAMAKKAL.	India
R. DHIVAKARAN	U.G STUDENT/ MECHATRONICS, PAAVAI ENGINEERING COLLEGE, NAMAKKAL.	India
S.PARTHIBAN	U.G STUDENT/ MECHATRONICS, PAAVAI ENGINEERING COLLEGE, NAMAKKAL.	India

Abstract:

ABSTRACT Farmers are unable to find the right kind of labour for their industry. The grocer is unable to classify the diseased fruits and vegetables. We are unable to find contaminated fruits and vegetables in the market. A pick and place robot for agriculture that uses colour sensors is a proposed method where society, time, and man crucial constraints for task completion on the largest scale. In the majority of routine and frequently performed tasks, automation plays a significant role in reducing human labour. In this project, pick and place operations are carried out by a robot. We are building a Pick and Place Robot with a Colour Sensor.

Complete Specification**Description:****BACKGROUND ART**

Nowadays, it is difficult for farmers to get workers to harvest their crops. Numerous crops are harmed as a result. Farmers are experiencing financial issues. The farmer cannot bring the crop to the market on time. They thus incur a loss since they are unable to sell the harvest for the right price. Farmers are required to pay their employees more over the holiday season. They are also unable to harvest the produce properly or sell it at the right time to the markets. Therefore, the farmer experiences significant losses during some festival times. And cultivating won't be possible for future generations. The shop assistant is unable to categorize the ill fruits and veggies. They consequently experienced a loss of revenue. Workers classify the fruits and vegetables in the market on a huge scale. So without the proper maintain goods gets spoilt. And cannot be sold in the market. During the pandemic time, shopkeepers and labours cannot access directly the fruits and crops. Fruits and vegetables are not available to consumers due to health concerns, resulting in economic losses.

OBJECTIVE OF INVENTION

To produce smart agri bot for multi - crop harvesting

SUMMARY OF INVENTION

Today, it is very challenging for farmers to get their workers to harvest their crops. Many crops are damaged as a result. Farmers are facing financial difficulties. The farmer is unable to bring their crop to the market on time. As a result, they are losing money as they are not able to sell the harvest at the right price. They have to pay more employees during the holiday season. They are not able to harvest the crop properly or sell it to the markets at the right time. Therefore, they are losing a lot of money.

[View Application Status](#)



[Terms & conditions](#) (<https://ipindia.gov.in/Home/Termsconditions>) [Privacy Policy](#) (<https://ipindia.gov.in/Home/Privacypolicy>)

[Copyright](#) (<https://ipindia.gov.in/Home/copyright>) [Hyperlinking Policy](#) (<https://ipindia.gov.in/Home/hyperlinkingpolicy>)

[Accessibility](#) (<https://ipindia.gov.in/Home/accessibility>) [Contact Us](#) (<https://ipindia.gov.in/Home/contactus>) [Help](#) (<https://ipindia.gov.in/Home/help>)

Content Owned, updated and maintained by Intellectual Property India, All Rights Reserved.

Page last updated on: 26/06/2019