

REPUBLIC OF SOUTH AFRICA
PATENTS ACT, 1978
APPLICATION FOR A PATENT AND ACKNOWLEDGEMENT OF RECEIPT
[Section 30 (1)-Regulation 22]

The granting of a patent is hereby requested by the undermentioned applicant on the basis of the present application.

Official Application No.		Applicant's or Agent's Reference
21	01	1973LPS
2022/04881		

71	Full Name(s) of Applicant(s)
<p>Dr. B V A N S S Prabhakar Rao S/o Bagadi Malleswararao, Venkannapeta Village, Yelamanchili Post, Kotabommali Mandal, Srikakulam Dist, Andhra Pradesh, 532222, India</p> <p>Dr. Ram Prasad Reddy Sadi Associate Professor, Department of Information Technology, Anil Neerukonda Institute of Technology and Sciences, Sangivalasa, Bheemunipatnam (Mandal), Tagarapuvalasa, Visakhapatnamz, Andhra Pradesh, 531162, India</p> <p>Dr. Terlapu Panduranga Vital Associate Professor, Department of Computer Science and Engineering, Aditya Institute of Technology and Management, Tekkali, Srikakulam, Andhra Pradesh, 532201, India</p> <p>Dr. Golajapu Venu Madhava Rao Professor, Department of Computer Science and Engineering, Audisankara college of Engineering and Technology, NH-5, Bypass Road, Aravinda Nagar, Gudur, Nellore Dist, AP-524101, India</p> <p>Dr. Kadupukotla Satish Kumar Associate professor, Department of Computer Science and Engineering, St. Peter's Engineering College, Hyderabad, 500043, India</p>	

54	Title of invention
AN INTELLIGENT COCONUT HARVESTING SYSTEM	

The applicant claims priority as set out on the accompanying Form P.2. The earliest priority claimed is		
COUNTRY:	NUMBER:	DATE:

This application is for a patent of addition to patent application No:		
21	01	

This application is a fresh application in terms of section 37 and based on Application No:		
21	01	

This application is accompanied by:		
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X	1.	A single copy of a complete specification of 14 pages.
X	2.	Drawings of 4 sheet(s).
X	3.	Publication particulars and abstract(Form P8)
X	4.	A copy of a figure of the drawing (if any) for the abstract
	5.	Assignment of invention
	6.	Certified priority document(s)
	7.	Translation(s) of the priority document(s)
	8.	Assignment of priority rights
	9.	A copy of the Form P.2 and the specification of S.A Patent Application (if applicable).
	10.	A declaration and power of attorney on Form P3
	11.	Statement on the use of indigenous Biological Resource, Genetic Resource, Traditional Knowledge or Use on Form P26
X	12.	

74	Address of Service:
337 Surrey Avenue, Randburg, 2194 SOUTH AFRICA	

Dated this 4th day of May 2022

Submitted online by :enerated by CIPC on this 5th day of Ma
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Signature of Applicant(s)

Page 1 of 9

This is returned to the applicant's

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Official Date Stamp
..... Registrar of Patents

address for service as proof of lodging.

CONFIRMATION

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REPUBLIC OF SOUTH AFRICA

REGISTER OF PATENTS

PATENTS ACT, 1978

Official application No.		Lodging date: Provisional		Acceptance date	
21	01	2022/04881		22	
International classification		Lodging date: Complete		Granted date	
51	A01B	23	2022/05/04		
71	Full name(s) of applicant(s)/Patentee(s):				
<p>Dr. B V A N S S Prabhakar Rao S/o Bagadi Malleswararao, Venkannapeta Village, Yelamanchili Post, Kotabommali Mandal, Srikakulam Dist, Andhra Pradesh, 532222, India</p> <p>Dr. Ram Prasad Reddy Sadi Associate Professor, Department of Information Technology, Anil Neerukonda Institute of Technology and Sciences, Sangivalasa, Bheemunipatnam (Mandal), Tagarapuvallasa, Visakhapatnamz, Andhra Pradesh, 531162, India</p> <p>Dr. Terlapu Panduranga Vital Associate Professor, Department of Computer Science and Engineering, Aditya Institute of Technology and Management, Tekkali, Srikakulam, Andhra Pradesh, 532201, India</p> <p>Dr. Golajapu Venu Madhava Rao Professor, Department of Computer Science and Engineering, Audisankara college of Engineering and Technology, NH-5, Bypass Road, Aravinda Nagar, Gudur, Nellore Dist, AP-524101, India</p> <p>Dr. Kadupukotla Satish Kumar Associate professor, Department of Computer Science and Engineering, St. Peter's Engineering College, Hyderabad, 500043, India</p>					
71	Applicant substituted:			Date registered	
71	Assignee(s):			Date registered	
72	Full name(s) of inventor(s):				
<p>Dr. B V A N S S Prabhakar Rao Dr. Ram Prasad Reddy Sadi Dr. Terlapu Panduranga Vital Dr. Golajapu Venu Madhava Rao Dr. Kadupukotla Satish Kumar</p>					
Priority claimed:		Country	Number	Date	
54	Title of invention				
AN INTELLIGENT COCONUT HARVESTING SYSTEM					
Address of applicant(s)/patentee(s):					
<p>S/o Bagadi Malleswararao, Venkannapeta Village, Yelamanchili Post, Kotabommali Mandal, Srikakulam Dist, Andhra Pradesh, 532222 INDIA Associate Professor, Department of Information Technology, Anil Neerukonda Institute of Technology and Sciences, Sangivalasa, Bheemunipatnam (Mandal), Tagarapuvallasa, Visakhapatnamz, Andhra Pradesh, 531162 INDIA Associate Professor, Department of Computer Science and Engineering, Aditya Institute of Technology and Management, Tekkali, Srikakulam, Andhra Pradesh, 532201 INDIA Professor, Department of Computer Science and Engineering, Audisankara college of Engineering and Technology, NH-5, Bypass Road, Aravinda Nagar, Gudur, Nellore Dist, AP-524101 INDIA Associate professor, Department of Computer Science and Engineering, St. Peter's Engineering College, Hyderabad, 500043 INDIA</p>					
74	Address for service				
<p>337 Surrey Avenue, Randburg, 2194 SOUTH AFRICA Reference No. 1973LPS</p>					
61	Patent of addition No.			Date of any change	
Fresh application based on.					
Date of any change					

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CONFIRMATION

REPUBLIC OF SOUTH AFRICA
PATENTS ACT, 1978
APPLICATION OR REQUEST TO THE REGISTRAR
(REGULATION 39)

OFFICIAL APPLICATION NO.		
21	01	2022/04881

AGENT REFERENCE
1973LPS

IN THE NAME OF:	
71	Dr. B V A N S S Prabhakar Rao Dr. Ram Prasad Reddy Sadi Dr. Terlapu Panduranga Vital Dr. Golajapu Venu Madhava Rao Dr. Kadupukotla Satish Kumar

In terms of the following section(s) 40 of the Act and/or regulation(s) 39 and 44 of the Patent Regulations, the applicant hereby request the following: to expedite acceptance of the application.
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Documents, if any, lodged in support of the request:
N/A

ADDRESS FOR SERVICE	
74	337 Surrey Avenue, Randburg, 2194 SOUTH AFRICA

4 May 2022

Submitted online by :

Signature of Applicant

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The above application or request is hereby allowed/refused.

Reasons for refusal of conditions of allowance, if any:

OFFICIAL DATE STAMP

REGISTRAR OF PATENTS

REPUBLIC OF SOUTH AFRICA
 PATENTS ACT, 1978
COMPLETE SPECIFICATION
[Section 30(1) – Regulation 28]

OFFICIAL APPLICATION NO.

21	01	2022/04881
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LODGING DATE

22	2022/05/04
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INTERNATIONAL CLASSIFICATION

51	A01B
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FULL NAME(S) OF APPLICANT(S)

71	<p>Dr. B V A N S S Prabhakar Rao S/o Bagadi Malleswararao, Venkannapeta Village, Yelamanchili Post, Kotabommali Mandal, Srikakulam Dist, Andhra Pradesh, 532222, India Dr. Ram Prasad Reddy Sadi Associate Professor, Department of Information Technology, Anil Neerukonda Institute of Technology and Sciences, Sangivalasa, Bheemunipatnam (Mandal), Tagarapuvalalsa, Visakhapatnamz, Andhra Pradesh, 531162, India Dr. Terlapu Panduranga Vital Associate Professor, Department of Computer Science and Engineering, Aditya Institute of Technology and Management, Tekkali, Srikakulam, Andhra Pradesh, 532201, India Dr. Golajapu Venu Madhava Rao Professor, Department of Computer Science and Engineering, Audisankara college of Engineering and Technology, NH-5, Bypass Road, Aravinda Nagar, Gudur, Nellore Dist, AP-524101, India Dr. Kadupukotla Satish Kumar Associate professor, Department of Computer Science and Engineering, St. Peter's Engineering College, Hyderabad, 500043, India</p>
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FULL NAME(S) OF INVENTORS(S)

72	<ol style="list-style-type: none"> 1. Dr. B V A N S S Prabhakar Rao 2. Dr. Ram Prasad Reddy Sadi 3. Dr. Terlapu Panduranga Vital 4. Dr. Golajapu Venu Madhava Rao 5. Dr. Kadupukotla Satish Kumar
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TITLE OF INVENTION

54	AN INTELLIGENT COCONUT HARVESTING SYSTEM
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REPUBLIC OF SOUTH AFRICA
 PATENTS ACT, 1978
PUBLICATION PARTICULARS AND ABSTRACT
 [Section 32(3)(a) – Regulation 2291)(g) AND 31]

OFFICIAL APPLICATION NO.		LODGING DATE		ACCEPTANCE DATE	
21	01	2022/04881		22	2022/05/04
				47	

INTERNATIONAL CLASSIFICATION		NOT FOR PUBLICATION	
51	A01B	CLASSIFIED BY:	

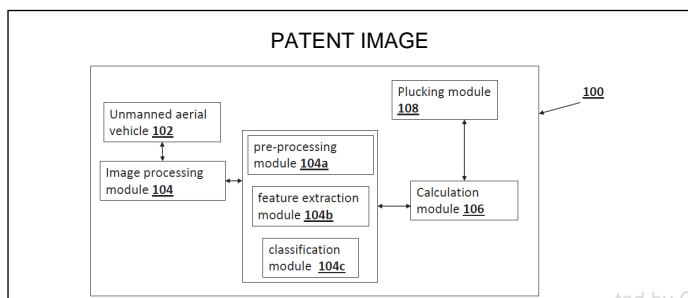
FULL NAME(S) OF APPLICANT(S)	
71	Dr. B V A N S S Prabhakar Rao S/o Bagadi Malleswararao, Venkannapeta Village, Yelamanchili Post, Kotabommali Mandal, Srikakulam Dist, Andhra Pradesh, 532222, India Dr. Ram Prasad Reddy Sadi Associate Professor, Department of Information Technology, Anil Neerukonda Institute of Technology and Sciences, Sangivalasa, Bheemunipatnam (Mandal), Tagarapuvalasa, Visakhapatnamz, Andhra Pradesh, 531162, India Dr. Terlapu Panduranga Vital Associate Professor, Department of Computer Science and Engineering, Aditya Institute of Technology and Management, Tekkali, Srikakulam, Andhra Pradesh, 532201, India Dr. Golajapu Venu Madhava Rao Professor, Department of Computer Science and Engineering, Audisankara college of Engineering and Technology, NH-5, Bypass Road, Aravinda Nagar, Gudur, Nellore Dist, AP-524101, India Dr. Kadupukotla Satish Kumar Associate professor, Department of Computer Science and Engineering, St. Peter's Engineering College, Hyderabad, 500043, India

FULL NAME(S) OF INVENTORS(S)	
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EARLIEST PRIORITY CLAIMED		
COUNTRY	NUMBER	DATE
33	31	32

TITLE OF INVENTION	
54	AN INTELLIGENT COCONUT HARVESTING SYSTEM

57	<p>A system and a method for harvesting Coconuts using an intelligent Coconut harvester, comprises of: an unmanned aerial vehicle (UAV) to capture a plurality of images of atleast a tree and atleast a parameter from atleast an angle; an image processing module for detecting the atleast a tree with minimum yield in terms of number of Coconut and condition of the Coconut to be harvested; a calculation module for calculating a circumference throughout a length of tree, wherein a diameter of the harvester is adjusted based on the calculated circumference to firmly hold the tree; and an plucking module for plucking and dropping the Coconut on ground based on current condition of the Coconut, wherein if the Coconut is tender or mature, it is dropped from top of the tree, wherein if the Coconut is young, it is dropped from a safe distance.</p>
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