

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941022588 A

(19) INDIA

(22) Date of filing of Application :07/06/2019

(43) Publication Date : 14/06/2019

(54) Title of the invention : ADVANCED SMART AQUAPONICS TECHNOLOGY FOR FUTURE FARMING IN AGRICULTURE

(51) International classification	:A01G31/02	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)SRI VENKATESHWARA COLLEGE OF ENGINEERING</b>
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(87) International Publication No	: NA	<b>3)PROF. ARJUN KUMAR GB</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The idea of an aquaponics is pitched across the table during a routine innovation topic discussion which is brainstormed and advanced research for future technology in agriculture. The team formed for the purpose dived into the research phase which resulted in designing a novel idea of using household green waste along with some mechanical arrangements embedded with electronics units applied to aquaponics technology. The idea of the proposal throws a light on the structuration and evaluation of the idea into a holistic product.

No. of Pages : 8 No. of Claims : 8



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## Patent Search

Invention Title	ADVANCED SMART AQUAPONICS TECHNOLOGY FOR FUTURE FARMING IN AGRICULTURE
Publication Number	24/2019
Publication Date	14/06/2019
Publication Type	INA
Application Number	201941022588
Application Filing Date	07/06/2019
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	AGRICULTURE ENGINEERING
Classification (IPC)	A01G31/02

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### Complete Specification

#### DESCRIPTION OF THE INVENTION:

. Agriculture being the backbone of our country derives its inspiration from the age-old heritage associated with it. It is supposed to be one of the oldest if it not the olde form of plantation structure developed along with stone houses which catalyzed the evolution of homo sapiens whilst introducing cultural phenomenon gradually change the phase of what before is just a life-supporting spherical ball. Given the magnitude of agricultural area available in our country, we should have been the leaders in this field with the maximum amount of produce to not just self-sustain but also export the produce. It is clear that a huge call for problem which requires immediate attentio in agriculture. In modern-day, farmer faces critical issues regarding various parameters forcing them to take a step back from farming and search for an alternate profession in agriculture.

- Evolution of human intelligence has brought in a significant development in agriculture technology. The very trait that is branched out efficient ways to solve out some the toughest real-world problems. Subjective analysis in this area is made scientists and engineers develop various methodologies in the form of farming techniques and equipments which can be used to effectively solve or at least reduce the state of problems ' depending on the severity. One such technique is Aquaponics, which is a culmination of two such other techniques namely Aquaculture (raising aquatic creatures in water) and Hydroponics (soiless systems for crop production). Aquaponics is complex agricultural technology that has been in the process of development over the last few decades. Recently, this modality has come into its own a a viable method of sustainable food production. The symbiotic exchange involved in the technique is mutually beneficial for all the elements of the system provir to be a practical alternative to other traditional agricultural methods such as aquaculture fish farming, standalone hydroponics system and soil-grown crops.

Aquanonics is a sustainable food production system that integrates recirculation aquaculture with hydroponics in a symbiotic environment. Hydroponics is a type of

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Page last updated on: 26/06/2019



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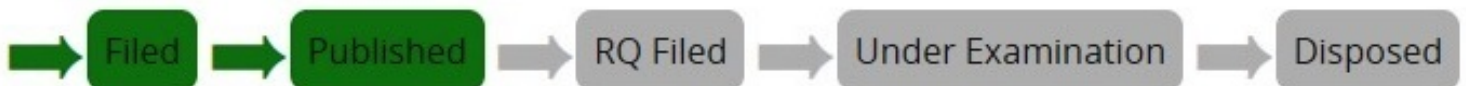
### Application Details

APPLICATION NUMBER	201941022588
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	07/06/2019
APPLICANT NAME	SRI VENKATESHWARA COLLEGE OF ENGINEERING
TITLE OF INVENTION	ADVANCED SMART AQUAPONICS TECHNOLOGY FOR FUTURE FARMING IN AGRICULTURE
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As Per Record)	
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E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	14/06/2019

### Application Status

APPLICATION STATUS	<b>Awaiting Request for Examination</b>
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