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Patent Search

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Abstract:

Exemplary embodiments of the present disclosure are directed towards a device to regulate flow of fluid and method employed thereof. The device comprising: inlet206 configured to connect with connector 202, connector202 coupled with duct214 to allow the flow the fluid from inlet 206. L-joint308 configured to allow the fluid to pass through circular mesh310, circular mesh310 configured to reduce the pressure inside duct214. Outlet nozzle312 configured to drive the fluid through angular joint212, angular joint214 configured to allow the fluid to drive out from outlet nozzle312 of the duct214. Ultrasonic sensors104a-104b configured to transmit ultrasonic signals to transceivers112a-112b, transceivers112a-112b configured to receive ultrasonic signals emitted by the ultrasonic sensors104a-104b via a processing device108 to detect the distance of an object and electric panels302a-302b configured to convert the ultrasonic signals into digital output signals to trigger a servomotor102, servomotor102 configured to regulate a digital control valve110 via processing device108. FIG. 3A

Complete Specification

Claims:As claimed in:

1. A device to regulate the flow of fluid comprising:

an inlet 206 configured to connect with a connector 202, whereby the connector 202 coupled with a duct 214 to allow the flow the fluid from the inlet 206;

an L-joint 308 configured to allow the fluid to pass through a circular mesh 310, whereby the circular mesh 310 configured to reduce the pressure inside the duct 214;

an outlet nozzle 312 configured to drive the fluid through an angular joint 212, whereby the angular joint 212 configured to allow the fluid to drive out from the outlet nozzle 312 of the duct 214;

one or more ultrasonic sensors 104a-104b configured to transmit ultrasonic signals to one or more transceivers 112a-112b, whereby the one or more transceivers 112a-112b configured to receive ultrasonic signals emitted by the one or more ultrasonic sensors 104a-104b via a processing device 108 to detect the distance of an object; and

one or more electric panels 302a-302b configured to convert the ultrasonic signals into digital output signals to trigger a servomotor 102, whereby the servomotor 102 configured to regulate a digital control valve 110 via the processing device 108

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Application Details

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APPLICANT NAME	Dr. GANDIKOTA RAMU
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FORM 1
THE PATENTS ACT, 1970
(39 of 1970)
&
THE PATENTS RULES, 2003
APPLICATION FOR GRANT OF PATENT
[See sections 7,54 & 135 and rule 20(1)]

(FOR OFFICE USE ONLY)

Application No.:
Filing Date:
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3. TITLE OF THE INVENTION: DEVICE TO REGULATE FLOW OF FLUID AND METHOD EMPLOYED THEREOF**4. ADDRESS FOR CORRESPONDENCE OF APPLICANT / AUTHORISED PATENT AGENT IN INDIA:**

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5. PRIORITY PARTICULARS OF THE APPLICATION(S) FILED IN CONVENTION COUNTRY:

Sr.No.	Country	Application Number	Filing Date	Name of the Applicant	Title of the Invention
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6. PARTICULARS FOR FILING PATENT COOPERATION TREATY (PCT) NATIONAL PHASE APPLICATION:

International Application Number	International Filing Date as Allotted by the Receiving Office
PCT//	

7. PARTICULARS FOR FILING DIVISIONAL APPLICATION

Original (first) Application Number	Date of Filing of Original (first) Application
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8. PARTICULARS FOR FILING PATENT OF ADDITION:

Main Application / Patent Number:	Date of Filing of Main Application
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9. DECLARATIONS:**(i) Declaration by the inventor(s)**

I/We ,Dr. GANDIKOTA RAMU,Dr. G. RAMESH,Dr. CH. MALLIKARJUNA RAO,Dr. P. DILEEP KUMAR REDDY,D. KISHORE BABU,ROKKAM MOHIT RAO,PAVANI KOTTEM,VADUPU SIVA SAI SIDDARTHA, is/are the true & first inventor(s) for this invention and declare that the applicant(s) herein is/are my/our assignee or legal representative.

(a) Date: -----

(b) Signature(s) of the inventor(s):

Rg, Ram, Ramesh, Ch, P, Dileep, Kishore, Rokkal, Pavan, Vadupu

(c) Name(s): Dr. GANDIKOTA RAMU, Dr. G. RAMESH, Dr. CH. MALLIKARJUNA RAO, Dr. P. DILEEP KUMAR REDDY, D. KISHORE BABU, ROKKAM MOHIT RAO, PAVANI KOTTEM, VADUPU SIVA SAI SIDDARTHA

(ii) Declaration by the applicant(s) in the convention country

I/We, the applicant(s) in the convention country declare that the applicant(s) herein is/are my/our assignee or legal representative.

(a) Date: -----

(b) Signature(s) :

(c) Name(s) of the singnatory: Dr. GANDIKOTA RAMU

(iii) Declaration by the applicant(s)

- The Complete specification relating to the invention is filed with this application.
- I am/We are, in the possession of the above mentioned invention.
- There is no lawful ground of objection to the grant of the Patent to me/us.

10. FOLLOWING ARE THE ATTACHMENTS WITH THE APPLICATION:

Sr.	Document Description	FileName
1	CLAIMS UNDER RULE 1 (PROVISIO) OF RULE 20	Claims.pdf
2	REQUEST FOR EARLY PUBLICATION(FORM-9)	Form 9.pdf
3	REQUEST FOR EXAMINATION (FORM-18)	Form 18.pdf
4	COMPLETE SPECIFICATION	Form 2.pdf
5	DRAWINGS	Drawings.pdf
6	STATEMENT OF UNDERTAKING (FORM 3)	Form 3.pdf
7	POWER OF AUTHORITY	POA.pdf
8	DECLARATION OF INVENTORSHIP (FORM 5)	Form 5.pdf

I/We hereby declare that to the best of my/our knowledge, information and belief the fact and matters stated hering are correct and I/We request that a patent may be granted to me/us for the said invention.

Dated this(Final Payment Date): *21/08/2018*Signature: *(Usharani K S)*

Name: Usharani K S

To The Controller of Patents

The Patent office at CHENNAI

(IN/PA/2241)

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