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Patent Search

Invention Title	IS-FAN: INTELLIGENT SEILING FAN
Publication Number	27/2019
Publication Date	05/07/2019
Publication Type	INA
Application Number	201911018925
Application Filing Date	12/05/2019
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	MECHANICAL ENGINEERING
Classification (IPC)	F04D25/088

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Abstract:

Present invention is related to fan and their technology to control through voice input Through voice the fan can start, increase, decrease speed. A ceiling fan is a mechanical fan mounted on the ceiling of a room or space, usually electrically powered, suspended from the ceiling of a room that uses hub-mounted rotating blades to circulate air. The present invention resolve one or more of the deficiencies in existing ceiling fans by using a high efficiency Electronically Commutated (EC) motor in a Totally Enclosed Non-Ventilated (TENV) design. An EC motor has rotor poles provided by permanent magnetic materials, such as Ceramic or Neodymium Iron Boron, which do not consume any electrical power. This allows an EC ceiling fan motor to run with substantially lower losses than a comparatively rated AC induction motor.

Complete Specification**FIELD OF THE INVENTION**

[100]The invention total related to fan and their technology to control through voice input Through voice the fan can start, increase, decrease speed.

BACKGROUND OF THE INVENTION

[200] A ceiling fan is a mechanical fan, usually electrically powered, suspended from the ceiling of a room that uses hub-mounted rotating paddles to circulate air. A ceiling fan rotates much more slowly than an electric desk fan; it cools people effectively by introducing slow movement into the otherwise still, hot air of a room, inducing evaporative cooling. Fans never actually cool air, unlike air-conditioning equipment, but use significantly less power.

[300] Existing ceiling fans are typically powered by high pole number AC induction motors, operating directly from the utility AC line voltage at high degrees of frequency slip, which makes operation very inefficient Typical domestic ceiling fans may be optimized for low cost and long life, but not electrical efficiency. For example a typical domestic ceiling fan consumes around 75 W of electrical input power, but only generates around 15 W of mechanical shaft power; an efficiency of just 20%. The balance of 60 W is consumed almost entirely by electrical losses and is dissipated as heat within the motor housing.

[400] for AC induction motor, significant losses are incurred by generating the rotor magnetic poles, which are formed by electromagnets powered from the incoming ac line supply. While rotor losses occur in all AC induction motors, they form a higher proportion of total losses in a ceiling fan motor because of the relatively low mechanical shaft power.

[500] In addition to consuming excessive electricity, the wasted energy is largely dissipated as heat causing substantial temperature rise within the motor, particularly at low speeds where the airflow is substantially reduced. To keep motor temperature rise within acceptable limits, ceiling fan motors are typically provided with ventilation holes.

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Application Details

APPLICATION NUMBER	201911018925
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	12/05/2019
APPLICANT NAME	1 . PROF.(DR.) BEG RAJ 2 . P.ILA CHANDANA KUMARI 3 . G. CHANDRA SEKHAR 4 . DR. SHAIK KHAMURUDEEN 5 . DR. ATUL A. PATIL 6 . MR. VIJAYKUMAR KISAN JAVANJAL 7 . DR.RUPESH VASUDEO BHORTAKE 8 . DR. KISHOR BHASKAR WAGHULDE 9 . MR. RAHUL K UNDEGAONKAR
TITLE OF INVENTION	IS-FAN: INTELLIGENT SEILING FAN
FIELD OF INVENTION	MECHANICAL ENGINEERING
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E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	05/07/2019

Application Status

APPLICATION STATUS	Awaiting Request for Examination
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➡ Filed ➡ Published ➡ RQ Filed ➡ Under Examination ➡ Disposed

In case of any discrepancy in status, kindly contact ipo-helpdesk@nic.in

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))	<u>(FOR OFFICE USE ONLY)</u> Application No: Filing Date Amount of Fees Paid: CBR NO: Signature:
1. APPLICANTS REFERENCE / IDENTIFICATION NO. (AS ALLOTTED BY OFFICE)	

2. TYPE OF APPLICATION [Please tick (✓) at the appropriate category]

Ordinary (✓)		Convention ()		PCT-NP ()	
Divisional ()	Patent of Addition ()	Divisional ()	Patent of Addition ()	Divisional ()	Patent of Addition ()

3A. APPLICANT(S):

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3B. CATEGORY OF APPLICANT [Please tick (✓) at the appropriate category]

Natural Person (✓)	Other than Natural Person ()
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	Small Entity ()	Startup ()	Others ()
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4. INVENTOR(S): [Please tick (✓) at the appropriate category]

Are all the inventor(s) same as the applicant(s) named above?	Yes (✓)	No ()
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If "No", furnish the details of the inventor(s) **N.A**

Name	Nationality	Country of Residence	Address
NA	NA	NA	NA

5. TITLE OF THE INVENTION:

IS-Fan: INTELLIGENT SEILING FAN

6. AUTHORISED REGISTERED PATENT AGENT(S)		NA
ADDITIONAL PATENT AGENTS	NA	

7. ADDRESS FOR SERVICE OF APPLICANT/ PATENT AGENT(S) IN INDIA PROF.(DR.) BEG RAJ (DIRECTOR/ PRINCIPAL) Address: DIRECTOR/ PRINCIPAL, AITM ENGINEERING INSTITUTE, PAHARIA- SARNATH ROAD ASHOKA ENGINEERING CHAURAHA SARNATH, PAHARIA, VARANASI-221007 UTTAR PRADESH , INDIA	Mobile No.: 8059794469 E-mail: dr.bksarkar2003@yahoo.in
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8. IN CASE OF APPLICATION CLAIMING PRIORITY OF APPLICATION FILED IN CONVENTION COUNTRY, PARTICULARS OF CONVENTION APPLICATION: N.A

Country	Appln. Number	Filing Date	Name of the Applicant	Title of the Invention	IPC (as classified in the convention country)
NA	NA	NA	NA	NA	NA

9. IN CASE OF PCT NATIONAL PHASE APPLICATION, PARTICULARS OF INTERNATIONAL APPLICATION FILED UNDER PATENT CO-OPERATION TREATY (PCT):

International application number	International filing date as allotted by the receiving office.
NA	NA

**10. IN CASE OF DIVISIONAL APPLICATION FILED UNDER SECTION 16,
PARTICULARS OF ORIGINAL (FIRST) APPLICATION : N.A**

Original (first) application number	Date of filing of Original (first) application
N.A.	N.A.

**11. IN CASE OF PATENT OF ADDITION FILED UNDER SECTION 54,
PARTICULARS OF MAIN APPLICATION OR PATENT: N.A**

Main application / patent Number	Date of filing of main application
N.A.	N.A.

12. DECLARATIONS:

(i) Declaration by the Inventor:

(In case the applicant is an assignee: the inventor(s) may sign herein below or the applicant may upload the assignment or enclose the assignment with this application for patent or send the assignment by post/electronic transmission duly authenticated within the prescribed period).

We, the above named inventor are the true & first inventor for this invention and declare that the applicant herein is my assignee or legal representative:

NA

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

(In case the applicant in India is different than the applicant in the convention country: the applicant in the convention country may sign herein below or applicant in India may upload the assignment from the applicant in the convention country or enclose the said assignment with this application for patent or send the assignment by post/electronic transmission duly authenticated within the prescribed period)

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

(iii) Declaration by the applicants:

We, the applicants hereby declare that: -

1. We are in possession of the above-mentioned invention.
2. The **Complete Specification** relating to the invention is filed with this application.
3. The invention as disclosed in the specification uses the biological material from India and the necessary permission from the competent authority shall be submitted by us before the grant of patent to us: **N.A.**
4. There is no lawful ground of objection to the grant of the patent to me/ us.
5. We are the assignees or legal representatives of true and first inventors:
6. The application or each of the applications, particulars of which are given in Para - 8 was the first application in convention country/countries in respect of our invention: **N.A.**

7. We claim the priority from the above mentioned application filed in convention country/countries and state that no application for protection in respect of the invention had been made in a convention country before that date by us or by any person from which we derive the title: **YES**
8. Our application in India is based on international application under Patent Cooperation Treaty (PCT) as mentioned in Para-9: **N.A.**
9. The application is divided out of our application particulars of which is given in Para-10 and prays that this application may be treated as deemed to have been filed on N.A. Under sec.16 of the Act: **N.A.**
10. The said invention is an improvement in or modification of the invention particulars of which are given in Para-11 : **N.A.**

FOLLOWING ARE THE ATTACHMENTS WITH THE APPLICATION

(a) Form 2

Item	Details	Fee	Remarks
Complete specification) #	No. of pages:		
Claim(s)	No. of claims: No. of pages:		
Abstract	No. of pages:		
Drawing(s)	No. of drawings: No. of pages:		

In case of a complete specification, if the applicant desires to adopt the drawings filed with his provisional specification as the drawings or part of the drawings for the complete specification under rule 13(4), the number of such pages filed with the provisional specification are required to be mentioned here.

(b) Complete specification (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies) **N.A**

(c) Sequence listing in electronic form **N.A**

(d) Drawings (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies) **N.A**

(e) Statement and Undertaking on Form-3

(f) Declaration of Inventor ship on Form-5

(g) Request For Publication Form-9 : 2750.Rs

(h) Power of Authority

Total fee Rs/- **in Cash/ Banker's Cheque /Bank Draft bearing No.....**

Date.....on..... Bank.

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

Dated this day of.....2019

P.ILA CHANDANA KUMARI (ASSOCIATE PROFESSOR
G. CHANDRA SEKHAR (ASSISTANT PROFESSOR, DEPARTMENT OF CSE)
DR. SHAIK KHAMURUDEEN (ASSOCIATE PROFESSOR, DEPARTMENT OF ECE)
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PROF.(DR.) BEG RAJ (DIRECTOR/ PRINCIPAL)

To,
The Controller of Patent,
The Patent Office, at Delhi