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(71)Name of Applicant :

1)Dr.Radhika Dora

Address of Applicant :Professor, Department of EEE
Geethanjali College of Engineering and Technology, Cheeryal
Village, KeesaraMandal, Hyderabad, Telangana- 501301
Telangana India

2)Duvvuru. Saritha

3)Dr. Ananda babu J

4)Sahas K C

5)Anitha K

6)Dr. D.S.Naga Malleswara Rao

7)Dr.Idamakanti Kasireddy

8)Dr.Addanki Purna Ramesh

9)Suman Tenali

10)Kesava Vamsi Krishna K V

11)Dr.Anand J Dhas

(72)Name of Inventor :

1)Dr.Radhika Dora

2)Duvvuru. Saritha

3)Dr. Ananda babu J

4)Sahas K C

5)Anitha K

6)Dr. D.S.Naga Malleswara Rao

7)Dr.Idamakanti Kasireddy

8)Dr.Addanki Purna Ramesh

9)Suman Tenali

10)Kesava Vamsi Krishna K V

11)Dr.Anand J Dhas

(57) Abstract :

Abstract An electric smart bike is portrayed and incorporates a voice recognition sense air speed at the bike, an electric engine to give intention power to the bike, and a regulator operatively associated with the engine, the regulator to control the electric engine utilizing the speed sensed by the air speed sensor. The regulator incorporates a set electric-engine boundary for the yield intensity of the engine. The electric-engine boundary can be bike speed. The regulator can likewise utilize ground tendency to decide the ability to be yield by the engine to help with driving the bicycle. A smart bike technique for deciding a client movement incorporate or characterize a majority of pattern marks, every standard mark relating to a sort of client action and having information shaped from a first information speaking to a differing static electric field and a subsequent information speaking to movement. Information receptive to a changing static electric field is gotten from a first sensor, and information receptive to movement is acquired from a subsequent sensor. The primary information is joined with the subsequent information, and the client action is distinguished dependent on a correlation of the consolidated first and second information with the majority of pattern marks. The regulator can utilize ground tendency to decide the ability to be yield by the engine to charge a battery in the bicycle. The regulator can set the intensity of engine help to be more prominent in a more noteworthy headwind than in a lighter headwind. The regulator utilizes rider weight and rider stature as boundaries for controlling the engine.

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Inventor

Name	Address	Country	Nat
Dr.Radhika Dora	Professor, Department of EEE Geethanjali College of Engineering and Technology, Cheeryl Village, KeesaraMandal, Hyderabad, Telangana- 501301	India	Indi
Duvvuru. Saritha	Assistant Professor, Narayana Engineering College, Gudur, Nellore (DT), Andhra Pradesh, INDIA	India	Indi
Dr. Ananda babu J	Assistant Professor, Malnad College of Engineering, P.B. NO. 21, Hassan, Karnataka-573202	India	Indi
Suhas K C	Assistant Professor, Channabasaveshwara institute of Technology, NH-206 ,BH Road, Gubbi-572216, Tumkur(D)	India	Indi
Anitha K	Assistant Professor, Raja Rajeswari College of Engineering, Ramohalli Cross, Mysore Road, Bengaluru, Karnataka-560074	India	Indi
Dr. D.S.Naga Malleswara Rao	Associate Professor, Department of EEE, GokrajuRangaraju Institute of Engineering & Technology , Hyderabad, Telangana,India	India	Indi
Dr.Idamakanti Kasireddy	Associate Professor, Department of EEE, Vishnu Institute of Technology, Bhimavaram, W.G.Dist., Andhrapradesh, India	India	Indi
Dr.Addanki Purna Ramesh	Professor, Department of ECE, Vishnu Institute of Technology, Bhimavaram, W.G.Dist., Andhrapradesh, India	India	Indi
Suman Tenali	D.No.5-25-9/4, Opposite to Delite Homes Apartment, Jaya Prakash Nagar, Ithanagar, Tenali, Guntur Dist., Andhrapradesh, India-522201	India	Indi
Kesava Vamsi Krishna K V	Associate Professor, Department of Physics, Malla Reddy Engineering College (A) Hyderabad-500100,Telangana, India	India	Indi
Dr.Anand J Dhas	Professor, Department of ECE, Rohini College of Engineering and Technology, Kanyakumari Main road, Palkulam, Near Anjugramam, Tamilnadu-629401	India	Indi

Applicant

Name	Address	Country	Nat
Dr.Radhika Dora	Professor, Department of EEE Geethanjali College of Engineering and Technology, Cheeryal Village, KeesaraMandal, Hyderabad, Telangana- 501301	India	Indi
Duvvuru. Saritha	Assistant Professor, Narayana Engineering College, Gudur, Nellore (DT), Andhra Pradesh, INDIA	India	Indi
Dr. Ananda babu J	Assistant Professor, Malnad College of Engineering, P.B. NO. 21, Hassan, Karnataka-573202	India	Indi
Suhas K C	Assistant Professor, Channabasaveshwara institute of Technology, NH-206 ,BH Road, Gubbi-572216, Tumkur(D)	India	Indi
Anitha K	Assistant Professor, Raja Rajeswari College of Engineering, Ramohalli Cross,Mysore Road, Bengaluru, Karnataka-560074	India	Indi
Dr. D.S.Naga Malleswara Rao	Associate Professor, Department of EEE, GokrajuRangaraju Institute of Engineering & Technology , Hyderabad, Telangana,India	India	Indi
Dr.Idamakanti Kasireddy	Associate Professor, Department of EEE, Vishnu Institute of Technology, Bhimavaram, W.G.Dist., Andhrapradesh, India	India	Indi
Dr.Addanki Purna Ramesh	Professor, Department of ECE, Vishnu Institute of Technology, Bhimavaram, W.G.Dist., Andhrapradesh, India	India	Indi
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Dr.Anand J Dhas	Professor, Department of ECE, Rohini College of Engineering and Technology, Kanyakumari Main road, Palkulam, Near Anjugramam, Tamilnadu-629401	India	Indi

Abstract:

Abstract An electric smart bike is portrayed and incorporates a voice recognition sense air speed at the bike, an electric engine to give intention power to the bike, and a regulator operatively associated with the engine, the regulator to control the electric engine utilizing the speed sensed by the air speed sensor. The regulator incorporates a set electric engine boundary for the yield intensity of the engine. The electric-engine boundary can be bike speed. The regulator can likewise utilize ground tendency to decide the ability to be yield by the engine to help with driving the bicycle. A smart bike technique for deciding a client movement incorporate or characterize a majority of pattern marks, ever standard mark relating to a sort of client action and having information shaped from a first information speaking to a differing static electric field and a subsequent information speaking to movement. Information receptive to a changing static electric field is gotten from a first sensor, and information receptive to movement is acquired from a subsequent sensor. The primary information is joined with the subsequent information, and the client action is distinguished dependent on a correlation of the consolidated and second information with the majority of pattern marks. The regulator can utilize ground tendency to decide the ability to be yield by the engine to charge a battery in a bicycle. The regulator can set the intensity of engine help to be more prominent in a more noteworthy headwind than in a lighter headwind. The regulator utilizes rider weight and rider stature as boundaries for controlling the engine.

Complete Specification**Claims:Claim**

1. An electric bike comprising: an air speed sensor to sense air speed; an electric motor to impart motive force to the bike; and a controller operatively connected to the motor, the controller to control the electric motor using the air speed sensed by the air speed sensor and to switch to a regeneration mode charging a battery from the electric motor when an inclination is negative and gravity assists powering the bike forward.
2. The electronic device wherein the at least one baseline signature of the plurality of baseline signatures corresponding at least in part to the electrical frequency of a power source includes a baseline signature corresponding to an A/C power source operating at 50 or 60 Hz.
3. The electronic device wherein the at least one other sensor comprises at least one of an accelerometer, a gyroscope or a magnetometer.
4. The electronic device according to claim 9, wherein the database includes a plurality of baseline signatures, at least one baseline signature of the plurality of baseline signatures corresponding at least in part to sound created by pedaling a bicycle or sound within a cabin of an aircraft.

, Description:In this invention a bike, also referred to as a bicycle or a cycle, is a vehicle which accommodates a human-controlled, for the most part pedal-driven, intends to impel the vehicle. Bikes are commonly single-track vehicles, having two wheels appended to a casing, one behind the other. Bikes for the most part have a force driven by a tire and a free turning turnable front wheel. Nonetheless, a bike with a determined front wheel is inside the extent of the current revelation. The term bike by and large alludes to a vehicle having two (bi) roundabout courses of action (cycle), nonetheless, as utilized in this patent application the term bike may likewise be considered to refer to tricycle and quadricycle vehicles having two next to each other force driven wheels/two one next to the other free turning wheels or different plans of free and driv

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