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Patent Search

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Inventor		
Name	Address	Country
Mr. Movva Naga Venkata Kiranbabu	Research Scholar, Department of CSE, Koneru Lakshmaiah Education Foundation, Green fields, Vaddeswaram, Guntur District- AP, India	India
Mrs. Divya Vadlamudi,	Assistant Professor, Department of CSE, Koneru Lakshmaiah Education Foundation, Green Fields, Vaddeswaram, Guntur District-AP-India	India
Dr. Murali Mohan Vutukuru	Assistant Professor, Department of CSE, Koneru Lakshmaiah Education Foundation, Green Fields, Vaddeswaram, Guntur District-.Andhra Pradesh India	India
Dr V Venkata Rao	Professor and HoD, Department of ECE, Narasaraopeta Engineering College, Narasaraopet, Guntur Dt. AP , India	India
Dr A V Nageswara Rao	Associate Professor, Department of ECE, Narasaraopeta Engineering College, Narasaraopet, Guntur Dt. AP, India	India
Ms P.Vasanthi	Assistant Professor, Department of ECE, Narasaraopeta Engineering College, Narasaraopet, Guntur Dt. AP , India.	India
Dr. Satyanarayana.Mummana	Associate professor, Dept. Of CSE, RAGHU ENGINEERING COLLEGE, Visakhapatnam, AP, India	India
Dr. Dharavathu Radha	Associate Professor, Dept. Of CSE, RAGHU ENGINEERING COLLEGE, Visakhapatnam, AP, India	India
Chittemma Yerra	Department of EEE, JNTUK-University College of Engineering Vizianagaram, Dwarapudi (post), AP, India	India
Dr SRINU NAIKRAMAVATHU	Assistant Professor, Department of EEE, AU College of Engineering (A) Andhra University, Visakhapatnam Andhra Pradesh India.	India
ARSHAD MOHAMMED	Research Scholar, Department of EEE, AU College of Engineering (A) Andhra University Visakhapatnam Andhra Pradesh India.	India
Applicant		

Name	Address	Country
Mr. Mowva Naga Venkata Kiranbabu	Research Scholar, Department of CSE, Koneru Lakshmaiah Education Foundation, Green fields, Vaddeswaram, Guntur District- AP. India	India
Mrs. Divya Vadlamudi,	Assistant Professor, Department of CSE, Koneru Lakshmaiah Education Foundation, Green Fields, Vaddeswaram, Guntur District-AP-India	India
Dr. Murali Mohan Vutukuru	Assistant Professor, Department of CSE, Koneru Lakshmaiah Education Foundation, Green Fields, Vaddeswaram, Guntur District-.Andhra Pradesh India	India
Dr V Venkata Rao	Professor and HoD, Department of ECE, Narasaraopeta Engineering College, Narasaraopet, Guntur Dt. AP , India	India
Dr A V Nageswara Rao	Associate Professor, Department of ECE, Narasaraopeta Engineering College, Narasaraopet, Guntur Dt. AP, India	India
Ms P.Vasanthi	Assistant Professor, Department of ECE, Narasaraopeta Engineering College, Narasaraopet, Guntur Dt. AP , India.	India
Dr. Satyanarayana.Mummana	Associate professor, Dept. Of CSE, RAGHU ENGINEERING COLLEGE, Visakhapatnam, AP. India	India
Dr. Dharavathu Radha	Associate Professor, Dept. Of CSE, RAGHU ENGINEERING COLLEGE, Visakhapatnam, AP. India	India
Chittemma Yerra	Department of EEE, JNTUK-University College of Engineering Vizianagaram, Dwarapudi (post), AP. India	India
Dr SRINU NAIKRAMAVATHU	Assistant Professor, Department of EEE, AU College of Engineering (A) Andhra University, Visakhapatnam Andhra Pradesh India.	India
ARSHAD MOHAMMED	Research Scholar, Department of EEE, AU College of Engineering (A) Andhra University Visakhapatnam Andhra Pradesh India.	India

Abstract:

Exemplary aspects of the present disclosure are directed towards the "SMART SELF ADJUSTING TOILET SEAT" consisting of Central Imaging System 101, Height Adjusting System 102 and Toilet Seat Adjusting System 103. Central Imaging System 101 comprising of microcontroller 101a, camera 101b, GPRS module 101c and flush valve control 1 coordination, microcontroller 101a identifies the user and adjust the seat height using linear motors 102 and seat width using linear motor 103b. If the user database then using image processing and Machine Learning Algorithms, microcontroller 101a predicts the user height and waist size and adjust the potty seat height and breadth accordingly.

Complete Specification

Claims: We Claim:

1. The Smart Self Adjusting Toilet Seat: consisting of Central Imaging System 101, Height Adjusting System 102 and toilet seat adjusting system 103; and Central Imaging System 101 comprising of microcontroller 101a, camera 101b and GPRS module 101c and capable of identifying the user; and Microcontroller 101a identifies the user and just the seat height using linear motors 102 and seat width using linear motor 103b; and Using image processing methods and Machine Learning Algorithms microcontroller 101a predicts the user height and waist size and adjust the toilet seat height and breadth.
2. The device, as claimed in claim 1, wherein the Microcontroller 101a by executing the relevant machine learning algorithm on camera 101b video to predict the height and waist for adjusting the toilet height and seat breadth.
3. The device as claimed in claim 1, wherein Microcontroller 101a adjust the toilet seat height by adjusting the linear motors 102 either based on user desired via Mobile Application or predicted height by the relevant machine learning algorithm.

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