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(54) Title of the invention : **MOTORIZED DAY BED CONTROL INTERFACED WITH AN INGRAINED SYSTEM BY SIMPLE PHYSICAL MOVEMENTS**

<p>(51) International classification : A61F7/02</p> <p>(31) Priority Document No : NA</p> <p>(32) Priority Date : NA</p> <p>(33) Name of priority country : NA</p> <p>(86) International Application No : NA</p> <p style="padding-left: 20px;">Filing Date : NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number : NA</p> <p style="padding-left: 20px;">Filing Date : NA</p> <p>(62) Divisional to Application Number : NA</p> <p style="padding-left: 20px;">Filing Date : NA</p>	<p>(71) Name of Applicant :</p> <p style="padding-left: 20px;">1) Tshibamb Yav Beston</p> <p style="padding-left: 40px;">Address of Applicant : Department of Electronics and Communication Engineering, School of Engineering and Technology, JAIN (Deemed-to-be University), Bangalore, Karnataka, Karnataka India</p> <p style="padding-left: 20px;">2) Dr. Thangadurai N</p> <p style="padding-left: 20px;">3) Vasudha MP</p> <p>(72) Name of Inventor :</p> <p style="padding-left: 20px;">1) Tshibamb Yav Beston</p> <p style="padding-left: 20px;">2) Dr. Thangadurai N</p> <p style="padding-left: 20px;">3) Vasudha MP</p> <p style="padding-left: 20px;">4) Ramesh S</p> <p style="padding-left: 20px;">5) Dr. N Rajeswaran</p> <p style="padding-left: 20px;">6) Dr. B.P. Pradeep kumar</p> <p style="padding-left: 20px;">7) Ranganatha Swamy. M.K</p> <p style="padding-left: 20px;">8) Karthik N</p> <p style="padding-left: 20px;">9) Dr Ashutosh Pattanaik</p> <p style="padding-left: 20px;">10) Dr Swayam Bikash Mishra</p>
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(57) Abstract :

An autonomous Motorized daybed has been developed for physically handicapped people, which serves their crucial role for maneuverings by simply moving their neck. To fulfil this, this work involves Arduino board programmed for processing & controlling the Motorized daybed. Micro switches are used here to sense the neck movements from the disabled person and which further send this to Arduino for taking necessary action to move the Motorized daybed accordingly. GPS module is integrated with the Arduino to locate the physically disabled person in case of emergencies. In addition to this, GSM module is used for sending crucial information regarding the physically disabled person's health issues if any, like body temperature, to further send this to his/her contact person/assigned care-taker. In some special case of physically challenged person who is not able to move any of his/her body part except fingers, this work gives the better assistance to make a movement of the Motorized daybed by simply controlling it by virtue of an android app installed on the Motorized daybed. An android app is developed to serve as inputs for processing and controlling the DC motors for the desired maneuverings.

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