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(54) Title of the invention : BED TRANSFER WHEELCHAIR WITH HEIGHT ADJUSTMENT

<p>(51) International classification :A61G 030600, A61G 030800, A61G 050400, A61G 051000, A61G 051200</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p><b>1)Chitkara University</b> Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----</p> <p><b>2)Chitkara Innovation Incubator Foundation</b> <b>Name of Applicant : NA</b> <b>Address of Applicant : NA</b></p> <p>(72)Name of Inventor :</p> <p><b>1)KHANNA, Arrik</b> Address of Applicant :Department of Electrical Engineering, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----</p> <p><b>2)SAREEN, Bhavna</b> Address of Applicant :Department of Computer Science &amp; Engineering, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----</p> <p><b>3)SINGH, Gurdyal</b> Address of Applicant :Department of Mechatronics Engineering, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----</p>
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(57) Abstract :

The present disclosure relates to a wheelchair system (100) designed to facilitate the lifting of a person from a bed to a wheelchair. The wheelchair system comprises a lightweight and durable wheelchair frame and a height adjustment module (104) equipped with a motor-powered arrangement. The height adjustment module (104) allows for easy adjustment of the wheelchair's height, ensuring compatibility with various bed or handicapped toilet heights. Additionally, the wheelchair system includes a backrest (106) for enhanced comfort and a locking mechanism (110) comprising belts, buttons, buckles, or a combination thereof to secure the adjusted height. A method for adjusting the wheelchair's height is also provided, involving activating the motor-powered arrangement to adjust the height and deactivating it to secure the adjusted position. The disclosed wheelchair system offers convenience and adaptability for individuals with mobility challenges.

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