

(54) Title of the invention : PATIENT REPOSITIONING PULLEY SYSTEM WITH SUPPORT JACKET

<p>(51) International classification :A61B0005000000, A61G0007100000, F16M0013020000, A61G0007000000, H04W0084120000</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 : 1)Chitkara University Address of Applicant :Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Rajpura -----</p> <p>2)Chitkara Innovation Incubator Foundation Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Birinder Kaur Address of Applicant :ME Fellowship Student, Department of Physiotherapy, Chitkara School of Health Sciences, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Rajpura -----</p> <p>2)Dr. Nalina Gupta Address of Applicant :Professor, Department of Physiotherapy, Chitkara School of Health Sciences, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Rajpura -----</p> <p>3)Dr. Sahana A Address of Applicant :Assistant Professor, Department of Physiotherapy, Chitkara School of Health Sciences, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Rajpura -----</p> <p>4)Navpreet Address of Applicant :Department of Physiotherapy, Chitkara School of Health Sciences, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Rajpura -----</p> <p>5)Avneet Address of Applicant :Department of Physiotherapy, Chitkara School of Health Sciences, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Rajpura -----</p> <p>6)Sargundeeep Address of Applicant :Department of Physiotherapy, Chitkara School of Health Sciences, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Rajpura -----</p>
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(57) Abstract :
 A patient repositioning pulley system with support jacket comprises of a bed 101 equipped with a multiple hinge joint 102 that allows the angle adjustment of the bed 101, a vertical stand 103 to ensure proper positioning and support during the repositioning, a vibrating module 104 provides gentle vibrations to multiple horizontal plates 113, a conveyor belt 105 facilitates smooth and controlled shifting of the patient's position on the bed 101, multiple thin pneumatic rods 106 are coated with a soft rubberized layer 107 to safely turn the patient to either side of the bed 101, a plurality of motorized telescopic sliders 108 is installed along the inner periphery on both sides of the bed 101, a microphone 109 to monitor the patient's breathing patterns, an artificial intelligence (AI)-enabled camera 110 to monitor the patient, a wireless fidelity (Wi-Fi) module 111 enables doctors and caregivers to connect to an application.

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