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(54) Title of the invention : PATIENT MOBILITY ASSISTIVE DEVICE

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(57) Abstract :

A patient mobility assistive device, comprising a wheelchair having a seating platform 1 and a back portion 2 adopted to provide mobility to a disabled person, a first 3 and second plate 4 and attached with each other via a pair of guiding racks 5 that aid in moving first plate 3 over second plate 4, an electromagnetic strip to create a strong magnetic field within guiding rack 5, an artificial intelligence based image capturing module 7 to capture multiple images of surroundings as means of detecting height and direction of a surface, a motorized to rotate a portion of racks 5 and move first plate 3 and activates motorized hinges 8 to rotate guiding rack 5, plurality of telescopic rods 9 to extend/retract first plate 3 in accordance with detected height of surface, and a motorized ball and socket joint 10 to provide a multidirectional movement to plate.

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