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(57) Abstract :

ABSTRACT SHOCK ABSORBING SUSPENSION WHEELCHAIR FOR UNEVEN TERRAIN MOVEMENT The present invention provides a shock absorbing suspension wheelchair for uneven terrain movement. The wheelchair comprises a rigid main frame, a seat assembly mounted on the rigid main frame through vibration-isolating supports, a plurality of wheels configured for movement over uneven terrain and, a suspension system operatively disposed between each of the plurality of wheels and the rigid main frame. The wheel is independently connected to the rigid main frame through a suspension linkage comprising a spring-damper mechanism selected from a coil spring shock absorber or an equivalent resilient member. The suspension system permits controlled vertical displacement of the plurality of wheels relative to the rigid main frame so as to absorb shocks and vibrations generated by uneven surfaces, thereby reducing transmission of impact forces to the seat assembly and improving user comfort, stability, and safety during movement. Fig 1

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