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(57) Abstract :

ABSTRACT Exemplary embodiments of the present disclosure are directed towards an advanced wheel suspension system. The system includes atleast two suspension members, a hub and a rim, whereby the suspension further includes atleast two coils and atleast one coil for compression and the other atleast one coil for expansion of suspension. The atleast two suspension members of the wheel is resilient to absorb impact force to the conveyance without the use of pneumatic or hydraulic constituents and can maintain the interval when tension is up to threshold value. The atleast two suspension members can compress or elongate when tension is beyond the threshold value and retrieve to initial state when impact force reduces to threshold value. It is suitable for conveyance like bicycle wheels, wheelchair and self-propelled vehicles. The vehicle with these wheels cannot jerk or skid at jumpstart or braking.

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