

The following is the legal description of Tow-Pac InstaTrike as described by the United States Patent Office.

Please note that InstaTrike is a REMOVABLE auxiliary wheel system that does not alter, modify, or change the construction of your motorcycle in any way. It is not a permanent trike conversion.

US Patent # 6,454,289 B1

Trailer hitch cart for a motorcycle

Abstract

A trailer hitch cart for a motorcycle comprises a two-wheel cart having a U-shaped frame, with a lateral frame member, a first longitudinal frame member extending forward from one end of the lateral frame member, and a second longitudinal frame member extending forward from the opposite end of the lateral frame member. Wheel mounting assemblies are provided at the forward ends of the respective longitudinal frame member on which the wheels on each side of the cart are mounted. The wheel mounting assemblies include rotation resisting shock absorbers connected by a crank member to the axles on which the wheels of the cart are mounted. As the wheels move up and down over the bumps in the road surface, the wheels on their axles rotate the crank members which applies rotational pressure to the shaft of the rotational type shock absorber. The shaft of each shock absorber extends into the tubular cavity of a housing which is filled with a rubber-like compressive material that is tightly adhered to the inner wall of the housing and to the shaft. When rotational pressure is applied to the shaft by the shock absorber crank in response to the slight up and down movement of the wheels over the bumps in the road surface, the compressive material adhered to the shaft resiliently resists rotation of the shaft thereby absorbing some or all of the impact of the wheels coming in contact with the bumps and depressions in the road surface. A longitudinal connecting member extends forwardly from the mid-region of the lateral frame member to connect the cart to the motorcycle, and a tubular connecting member extends rearwardly from the same location for reception therein of the shaft of a conventional trailer hitch to which a trailer can then be connected. The wheels of the cart are positioned adjacent the rear wheel of the motorcycle and outboard from each opposite side thereof when the cart is connected to the motorcycle. *The cart in accordance with this invention provides a safer and more stable connection of a trailer to a motorcycle.*

