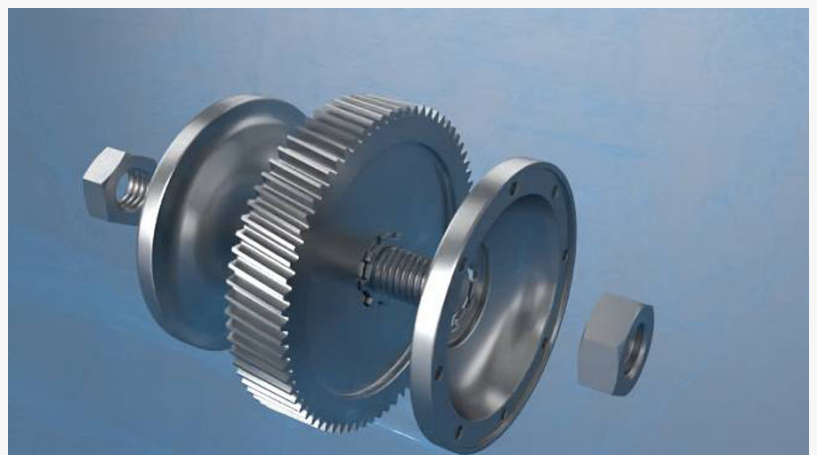


InventionHome® Product Developer Creates Reinforced Drivetrain Solution for Can-Am UTV Rear Drive Gear Failures

PITTSBURGH, PA, UNITED STATES, June 25, 2026 /EINPresswire.com/ -- Richard H. of Chesapeake, VA is the creator of the Can Am Rear Gear Drive Upgrade, a drivetrain enhancement designed to combat common failure points found in many Can-Am utility task vehicles (UTVs). The upgrade focuses on strengthening the rear drive gear assembly, specifically the area where the half shaft interfaces with the gear.

In stock configurations, rear drive gear failure can occur when the splined connection between the half shaft and drive gear strips or deteriorates. When this happens, the affected wheel can lose drive engagement and cause the vehicle to pull sharply to one side. In more severe cases, failure of both sides can result in a complete loss of vehicle propulsion. These types of failures often require extensive repairs and can lead to vehicle downtime in recreational, agricultural, industrial, or off-road applications.

The Can Am Rear Gear Drive Upgrade incorporates several engineering modifications intended to increase drivetrain durability and improve torque transfer through the rear drive



assembly. Central to the design is a reinforced drive gear featuring splines that extend completely through the gear body. A splined shaft is inserted through the gear to maximize spline engagement and distribute drivetrain loads across a larger contact area. Half-shaft end plates are then secured through the inserted shaft and locked into position with a retaining locknut to create a rigid mechanical connection designed to resist movement and wear over time.

The assembly is further strengthened by fastening the half shafts directly to the reinforced end plates using bolted connections. This integrated configuration provides increased structural integrity compared to the original equipment design and is intended to withstand the high torque loads and shock forces commonly encountered during off-road operation. The upgrade may also be adapted for use on other machines with minor modifications, potentially extending its use to a broader range of off-road and utility vehicles.

Key features and benefits include:

- Reinforced drive gear design with splines extending completely through the gear body for increased engagement and load distribution.
- Splined shaft inserted through the drive gear to enhance structural strength and reduce stress concentrations.
- Locknut retention system that helps prevent loosening and maintains assembly integrity during operation.
- Reduced likelihood of drive gear failure that can lead to loss of wheel drive or vehicle immobilization.
- Enhanced reliability for recreational users, off-road enthusiasts, agricultural operators, and commercial users who depend on consistent vehicle performance.

The Can Am Rear Gear Drive Upgrade provides an alternative solution intended to improve reliability, extend component life, and reduce repair frequency in demanding operating environments.

Richard filed his Utility Patent with the United States Patent and Trademark Office (USPTO) and is working closely with [InventionHome](#), a leading invention licensing firm, to sell or license the patent rights to his Can Am Rear Gear Drive Upgrade product. Ideal licensing candidates would be U.S. based product manufacturers or distributors looking to further develop and distribute this product innovation.

Companies interested in the Can Am Rear Gear Drive Upgrade can contact InventionHome at member@inventionhome.com. Inventors currently looking for assistance in patenting, marketing, or licensing their invention can request information from InventionHome at info@inventionhome.com or by calling 1-866-844-6512.

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