

**LAND AND AERIAL TRANSPORTATION VEHICLE AND POWERTRAIN
THEREOF**

Abstract

A powertrain including an engine; a main drive shaft assembly; a primary clutch mechanism coupled to the engine and the a main drive shaft assembly, the primary clutch mechanism being operable to connect or disconnect the main drive shaft assembly and the engine; an axle shaft coupled transversely to the main drive shaft assembly; a secondary clutch mechanism having a driving member coupled to an end of the axle shaft; a drive wheel coupled to a first driven member of the secondary clutch mechanism; and an air propulsion unit coupled to a second driven member of the secondary clutch mechanism. The secondary clutch mechanism being operable to engage or disengage the first driven member and/or the second driven member to the driving member so as to connect or disconnect the drive wheel and/or the air propulsion unit to the axle shaft. A vehicle including the powertrain.

FIG. 1