

A MODULAR BATTERY CONNECTOR AND BATTERY LOCKING SYSTEMS IN A VEHICLE AND METHODS THEREOF

ABSTRACT

A modular battery connector (10) and battery locking systems (300, 400, 500, 600) in a vehicle and methods thereof. The modular battery connector (10) includes a first connector assembly (100) and a floating type second connector assembly (200). The battery connector (10) facilitates bi-directional orientation. The battery connector (10) is easy to align and assemble, and enables effective performance of the battery pack and ensures longer life of the battery pack. The battery connector (10) restricts fluid flow into battery pack (B) thereby preventing short circuit of components of battery pack (B), and restricts electrical interference of wiring harness and restricts short circuit between power terminals. The battery locking systems (300, 400, 500, 600) is adapted to lock the battery pack to a guide member (210) of the second connector assembly (200). The systems (300, 400, 500) is reliable and prevents theft of the battery pack.

Fig. 1a and Fig. 1b