

Abstract of the Disclosure

LAMINOUS MULTI-POLYMERIC HIGH AMPERAGE OVER-MOLDED CONNECTOR ASSEMBLY FOR PLUG-IN HYBRID ELECTRIC VEHICLE CHARGING

In an electrical connector for an electric vehicle, the spring latch is not sealed; instead, the connector body has holes allowing water entering the spring latch mechanism to drain harmlessly out of the connector. A forward-facing LED or other light source acts as a flashlight. Once the connector is connected, the forward-facing LED is switched off, and a rear-facing LED or other light source is switched on to confirm that the connector is connected and capable of charging the vehicle. The connector is produced by overmolding in a three-layer configuration, where each layer is formed of a material having advantageous materials for that layer's position in the connector.

(Fig. 1)