

Ceramic Matrix Composites

23_ENER_CMC_LightGRID

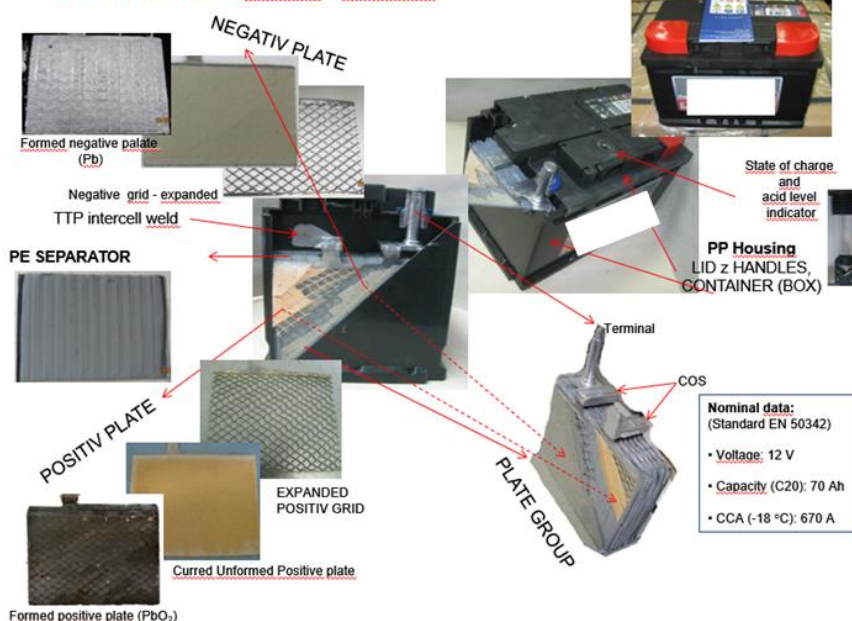
Title: Lightweight active grid for replacement of lead alloy grids

Description: Replacement of lead alloy grid with lightweight material with better conductivity and resistant in dilute sulfuric acid. Seeking for lightweight material for active grid with electrical conductivity and resistant in dilute sulfuric acid. Achieving adhesion with active material to collect electrons from chemical reactions in active mass in batteries electrodes.

Figures: top – active grid, bottom – battery components



SLI BATTERY – Cross - Section



Objectives:

- Higher energy density (weight reduction)
- Reduce the use of lead
- CO₂ emissions reduction