

Abstract of the Specification

The technique of producing apron boards on high-speed rail equipment cabinet by composite material

This invention relates to a kind of technique in producing apron boards on equipment cabinet of high-speed rail with composite material, and the material includes aramid fiber honeycomb, PET foam, 3K carbon fiber flame retardant prepreg, unidirectional carbon fiber flame retardant prepreg, glass fiber flame retardant prepreg, aramid flame retardant prepreg, 300g/m² of single medium temperature curing blue epoxy adhesive. The technique includes (1)、 making main board of apron board; (2) Making apron board strip; and apron board strip includes two parts, two piece of each part with a total of four pieces; (3)、 Among the four apron board strips, two of which face with each other are the same kind, and all the apron board strips are stuck in apron board. By lamination design, the invention makes the apron board obtain very high strength at all angles, with aramid design gaining high impact resistance; Mould pressing technique is used to produce the main apron board, and vacuum bagging technique to produce apron board strip; the overall strength is good. Hot pressing process requires low contents of resin that leads to light weight of the apron board.

[Figure 2]