

ABSTRACT

This invention relates to a method for manufacturing an anodic member for a lithium ion secondary battery with a capacity greater than 1 mAh. The anodic member is manufactured from a colloidal suspension having aggregates or agglomerates of monodisperse nanoparticles of a lithium ion conducting material with a mean primary diameter of between 5 nm and 100 nm having a mesoporosity of between 35% and 70% by volume. This anodic member may be used in a lithium ion battery. When first charged, metallic lithium precipitates into the mesopores of the anodic member and forms the anode.

Fig. 3