

NEW PROCESS FOR LARGE-SCALE PRODUCTION OF MONODISPERSE NANOPARTICLES

Abstract

A process for making nanoparticles of metals, metal alloys, metal oxides and multi-metallic oxides, which comprises the steps of: a) reacting a metal salt dissolved in water with an alkali metal salt of C_{4-25} carboxylic acid dissolved in a first solvent selected from the group consisting of C_{5-10} aliphatic hydrocarbon and C_{6-10} aromatic hydrocarbon to form a metal carboxylate complex and b) heating said metal carboxylate complex dissolved in a second solvent selected from the group consisting of C_{6-25} aromatic, C_{6-25} ether, C_{6-25} aliphatic hydrocarbon and C_{6-25} amine to

Figure 3