

ABSTRACT OF THE DISCLOSURE

Printable Compositions Containing Silver Nanoparticles, Processes for Producing Electrically Conductive Coatings Using the Same, and Coatings Prepared Thereby

Printable compositions comprising: (a) 5 to 40 parts by weight of silver nanoparticles having a maximum effective diameter of 150 nm, as determined by laser correlation spectroscopy; (b) 50 to 99.5 parts by weight of water; (c) 0.01 to 15 parts by weight of a dispersing agent; (d) 0.5 to 5 parts by weight of a film former; and (g) 30 to 70 parts by weight of metal particles having a maximum effective diameter of 10 μm , as determined by laser correlation spectroscopy; wherein the printable composition has a viscosity of at least 1 Pa·s; processes for producing electrically conductive coatings using such compositions and electrically conductive coatings prepared thereby.

FIG: NONE