

ABSTRACT OF THE DISCLOSURE

ELECTROCONDUCTIVE PASTE COMPOSITION CONTAINING METAL NANOPARTICLES

An electroconductive paste composition, particularly for solar cells, contains silver particles, glass frit, an organic vehicle, and a nanoparticle additive. The additive contains electrically conductive metal, metal alloy, and/or metal silicide nanoparticles, such as nickel, chromium, cobalt, titanium, or alloys, silicides, and mixtures thereof. When used to form an electrical contact on a solar cell, such a paste provides for decreased contact resistance between the paste and the substrate and improved efficiency of the solar cell.