

ABSTRACT

METAL COMPOUND CHEMICALLY ANCHORED COLLOIDAL PARTICLES AND METHODS OF PRODUCTION AND USE THEREOF

5 Metal compound chemically anchored colloidal particles wherein the metal
compound is in molecular form are disclosed. A facile and fast process to chemically
anchor metal compounds uniformly onto colloidal particle surfaces via chemical bonding
has been developed. Metal compounds are chemically anchored to the surface of
colloidal particles via an organic linking agent. Uniformly distributed metal compounds
remain in molecular form after the process. The metal compound chemically anchored
10 colloidal particles can be used as solid catalyst in metal chemical-mechanical
planarization process.

(No drawing to be published)