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(54) Title: LIQUID DISPERSION AND POWDER OF CERIUM BASED CORE-SHELL PARTICLES, PROCESS FOR PRO-
DUCING THE SAME AND USES THEREOF IN POLISHING

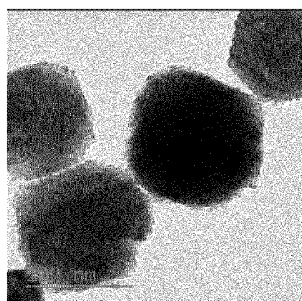


Fig. 1

(57) Abstract: The invention relates to cerium based core-shell particles hav-
ing a core of cerium oxide optionally doped with at least one metal (M) and a
shell consisting of a plurality of nanoparticles of cerium oxide optionally doped
with at least one metal (M'), which can be the same or different from metal (M),
formed on the surface of the core particle. The invention also relates to disper-
sions thereof in a liquid medium, to a process for producing the same and to the
use of these particles and dispersions in polishing applications such as chemical
mechanical polishing.



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