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- (54) **Title:** MONODISPERSED SPHERICAL RARE EARTH OXIDES

$$D = \frac{6000}{SSA \times p} \quad (I)$$

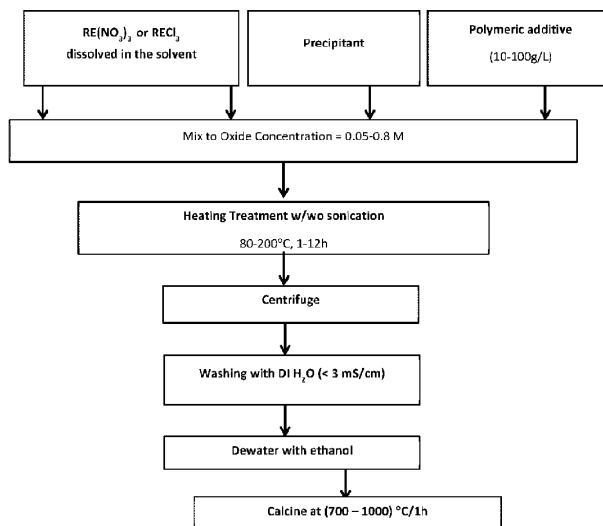


FIG. 1

- (57) **Abstract:** A composition comprising monodispersed spherical rare earth oxide particles having an average particle size of about 20 nm to about 300 nm. The rare earth oxide particles of this composition have a calculated particle size diameter D in nm: Formula (I) where SSA is BET surface area in m²/g and p is density in g/cm³, that is less than about 25% different than the observed particle size diameter measured by SEM. The rare earth particles can be Dy₂O₃, Ho₂O₃, La₂O₃, and Y₂O₃ particles. This composition has beneficial properties for ceramic and electronic uses. Processes for making these particles and uses of these particles are further included.

NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO,
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