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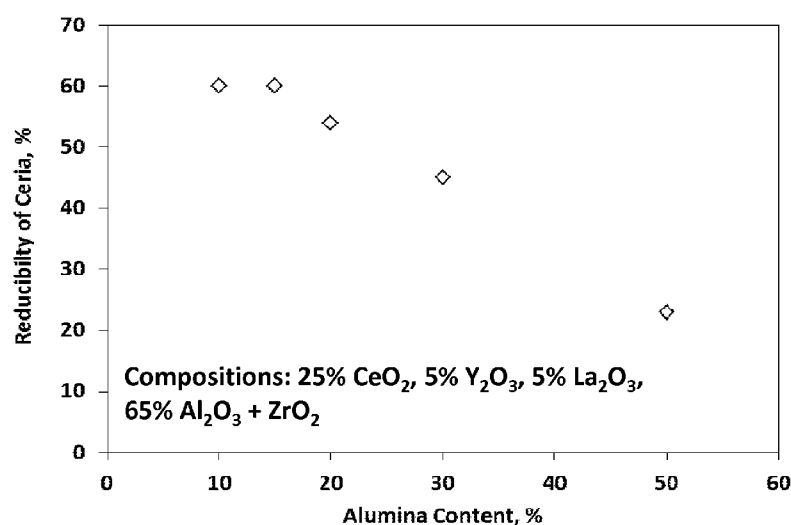


FIG. 6

(57) Abstract: Provided are composites of mixed metal oxides comprising: a ceria-zirconia-alumina composite, wherein the alumina is present in an amount in the range of 1 to less than 30% by weight of the composite and the mixed metal oxide composite has a ceria reducibility of at least 50% after 12 hours of hydrothermal aging at 1050°C. In preparation thereof, a ceria-zirconia solid solution can optionally further comprise at least one rare earth oxide other than ceria and the alumina may be formed by using a colloidal alumina precursor. Methods of making and using these composites are also provided.