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(54) **HYDROTHERMAL METHOD OF SYNTHESIS OF RARE-EARTH TANTALATES AND NIOBATES**

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C01G 49/00 (2006.01)

(52) **U.S. Cl.** **423/263**; 423/275

(58) **Field of Classification Search** 423/263, 423/275

See application file for complete search history.

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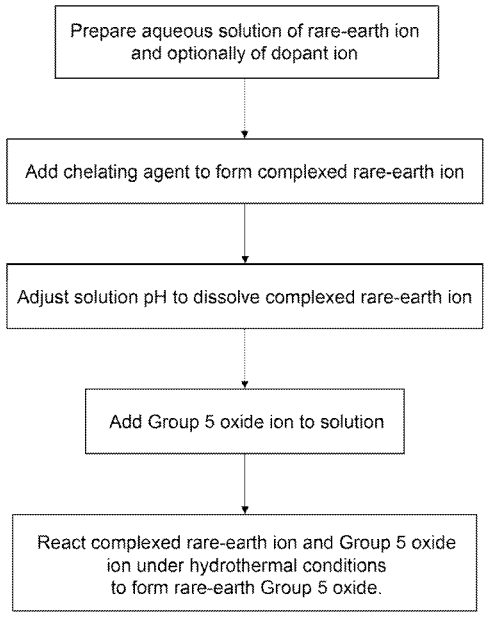
(57) **ABSTRACT**

A hydrothermal method of synthesis of a family of rare-earth Group 5 oxides, where the Group 5 oxide is a niobate or tantalate. The rare-earth Group 5 oxides can be doped with suitable emitter ions to form nanophosphors.

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