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(54) **RARE-EARTH TANTALATES AND NIOBATES SUITABLE FOR USE AS NANOPHOSPHORS**

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(51) **Int. Cl.**

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C09K 11/08	(2006.01)
C09K 11/77	(2006.01)
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C01G 33/00	(2006.01)

(52) **U.S. Cl.**
USPC ..... **252/301.4 R**; 423/594.8

(58) **Field of Classification Search**
USPC ..... 252/521.1, 301.4 R; 423/62–68, 594.8
See application file for complete search history.

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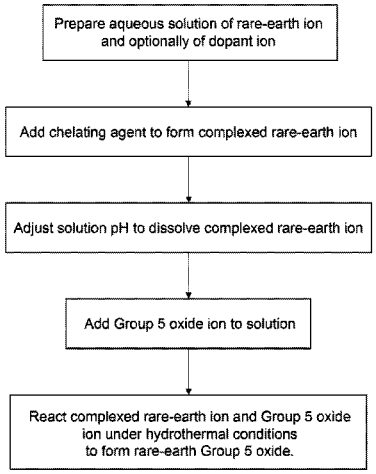
(57) **ABSTRACT**

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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