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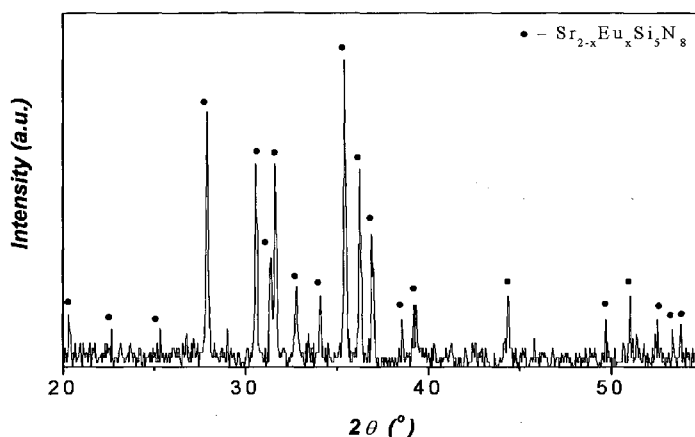
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(54) Title: TITLE OF INVENTION: NITRIDE PHOSPHOR, REACTION MIXTURE AND METHOD PRODUCTION AND LIGHT EMITTING DEVICE COMPRISING SUCH A PHOSPHOR

[Fig. 1]

(57) Abstract: Provided are a method for preparing a rare-earth doped alkaline-earth silicon nitride phosphor powder having the composition of $\text{Me}_{2-x}\text{R}_x\text{Si}_3\text{N}_{8-y}\text{F}_y$ ($0 < x < 1.0$, $0 \leq y < 0.5$) within seconds at ambient temperature; the nitride phosphor prepared therefrom; and a light emitting device comprising the phosphor. Such silicon nitride based phosphors having small particle size, large surface area and improved chemical properties can strongly absorb UV and blue light and efficiently convert it into orange-red light, so that they can be used as an effective phosphor to form a smooth layer without sedimentation in a LED package, and as light sources and displays. Especially for applying the fine particles to a LED package, cost reduction can be achieved with respect to the weight ratio.



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