

ABSTRACT



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NITRIDE PHOSPHOR AND PRODUCTION PROCESS THEREOF, AND LIGHT EMITTING DEVICE

To provide a phosphor containing a comparatively much red component and having high light emitting efficiency, high brightness and further high durability, the nitride phosphor is represented by the general formula $L_xM_yN_{((2/3)X+(4/3)Y)} \cdot R$ or $L_xM_yO_zN_{((2/3)X+(4/3)Y-(2/3)Z)} \cdot R$ (wherein L is at least one or more selected from the Group II Elements consisting of Mg, Ca, Sr, Ba and Zn, M is at least one or more selected from the Group IV Elements in which Si is essential among C, Si and Ge, and R is at least one or more selected from the rare earth elements in which Eu is essential among Y, La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er and Lu.); contains the another elements.

Fig. 1



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