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(54) **PHOSPHOR AND METHOD FOR PRODUCTION THEREOF AND PLASMA DISPLAY DEVICE**

(57) The present invention relates to a plasma display device apt to increase luminance of a phosphor layer and prevent degradation of a discharge characteristic, and to a phosphor used for the device. This plasma display device has a green phosphor having a crystal structure of $\text{Zn}_2\text{SiO}_4\cdot\text{Mn}$, and monovalent oxide is substituted for part of the green phosphor. The monovalent oxide is one or more of lithium oxide (Li_2O), sodium ox-

ide (Na_2O), potassium oxide (K_2O), cesium oxide (Cs_2O), rubidium oxide (Rb_2O), copper oxide (Cu_2O), and silver oxide (Ag_2O). This structure allows reduction of oxygen defects occurring in the green phosphor, suppression of the luminance decrease of the green phosphor, and improvement of a discharge characteristic.

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