

ORGANIC LIGHT EMITTING ELEMENT AND DISPLAY DEVICE USING THE ELEMENT

ABSTRACT OF THE DISCLOSURE

A hole transporting region made of a hole transporting material, an electron transporting region made of an electron transporting material, and a mixed region (light emitting region) in which both the hole transporting material and the electron transporting material are mixed and which is doped with a triplet light emitting material for red color are provided in an organic compound film, whereby interfaces between respective layers which exist in a conventional lamination structure are eliminated. and respective functions of hole transportation, electron transportation, and light emission are exhibited. In accordance with the above-mentioned method, the organic light emitting element for red color can be obtained in which power consumption is low and a life thereof is long. Thus, the display device and the electric device are manufactured by using the organic light emitting element.