

ORGANIC LIGHT EMITTING DEVICE AND DISPLAY DEVICE USING THE SAME

ABSTRACT OF THE DISCLOSURE

An organic compound film is composed of a hole transporting region, a first mixed region, a light emitting region, a second mixed region, and an electron transporting region that are connected to one another. With the organic compound film thus structured, the blue organic light emitting device obtained is free from interfaces between layers which are present in the conventional laminate structure. When pigment doping is added to this device structure, a white organic light emitting device is obtained. A blue or white organic light emitting device having high light emission efficiency and long lifetime is provided by this method. When this organic light emitting device is combined with color conversion layers or color filters, a full color display device that consumes less power and lasts long can be obtained.