

and inorganic material, the known materials can be used. In addition, the EL layer is totally formed in a thickness around 100 nm as a thin film layer. For this reason, it is necessary to enhance the evenness of the surface of the cathode or the anode.

[0179] As a material used for a cathode, it is said that it is preferable to use a metal having a small work function (representatively, metal elements belonging to I group or II group of the periodic table) or an alloy containing these. Since the smaller the work function is, the more the luminous efficiency is enhanced, it is preferable that among these, as a material used for a cathode, an alloy containing Li (lithium), which is one of alkaline metals, is used.

[0180] As a conductive film using for the anode, a material having a bigger working function in comparison with the material of the cathode such as ITO (indium oxide-tin oxide alloy), indium oxide-zinc oxide alloy ($\text{In}_2\text{O}_3\text{—ZnO}$), zinc oxide (ZnO) or the like may be used. Further, a material having a lower sheet resistance than ITO, specifically, platinum (Pt), chromium (Cr), tungsten (W), or nickel (Ni) may be used.

[0181] An organic light emitting layer is defined in this specification as an aggregate of layers formed between an anode and cathode of a light emitting element in which a layer containing an organic compound serves as a light emitting layer. Specifically, an organic light emitting layer includes a light emitting layer, a hole injecting layer, an electron injecting layer, a hole transporting layer, an electron transporting layer, etc. The basic structure of an organic light emitting element is a laminate of an anode, a light emitting layer, and a cathode layered in order. The basic structure may be modified into a laminate of an anode, a hole injecting layer, a light emitting layer, and a cathode layered in order, or a laminate of an anode, a hole injecting layer, a light emitting layer, an electron transporting layer, and a cathode layered in order.

[0182] A light emitting element in which a layer containing an organic compound serves as a light emitting layer has, in addition to an anode and a cathode, a layer containing an organic compound (light emitting material) that generates luminescence (electro luminescence) when an electric field is applied (the layer is hereinafter referred to a light emitting layer).

[0183] When a current flowing to the light emitting element is controlled by TFTs, there are two methods in a rough dividing way. Specifically, one method is controlling the current in a voltage region called saturation region, the other is controlling the current in a voltage region before reaching the saturation region. In this specification, a Vd region where a current value is substantial constant is referred to as a saturation region in Vd-Id curve. In addition, in the invention, there is no limitation putted on the driving methods of the light emitting element, that is to say, any driving methods can be used.

[0184] By the steps up through this point, the layer to be peeled is formed by laminating a layer 933b containing the light emitting element in which a layer containing an organic compound serves as a light emitting layer, and a layer 933a having TFTs and connected to the light emitting element. Since the light emitting element in which a layer containing an organic compound serves as a light emitting layer is weak

against moisture and oxygen, immediately after the light emitting element in which a layer containing an organic compound serves as a light emitting layer is formed, using a substrate, a sealing can, and a sealant to seal it.

[0185] Next, a process is performed for partially reducing the adhesion between a first material layer 931 and a second material layer 932. The processing for partially reducing the adhesion is a process in which a laser light is partially radiated on the first material layer or on the second material layer along the perimeter of the region to be peeled, or is a process in which localized pressure is applied from the outside along the perimeter of the region to be peeled to apply damage to a part of the inside or the surface of the second material layer. Specifically, a diamond or other such hard needle may be pressed perpendicularly and moved while applying pressure. Preferably, a scribe device is used and is pressed down by an amount of 0.1 mm to 2 mm, with pressure being applied as it is moved. In this way, before performing the peeling, it is important to create a portion where peeling can occur easily, which serves as a starter. By performing the preprocessing in which the selective (partial) reduction of the adhesion takes place, defective peelings are eliminated and yield is improved.

[0186] Subsequently, a FPC 901 is attached to a terminal electrode provided at the end of an outgoing wiring to which TFT provided on the layer to be peeled 933 is connected.

[0187] Next, a second substrate 935 and the layers to be peeled 933a, 933b are adhered to each other using a first adhesive 934. (See FIG. 9B) A film 902 is adhered to the second substrate 935 with an adhesive 903 in advance. The adhesive 903 is desired to be weaker in adhesive force than that of the first adhesive 934, and it is also desired to be an adhesive which is soluble so as to dissolve in a solvent, or is photosensitive so as to lose adhesiveness when irradiated with light. However, the adhesive 903 is removed in subsequent steps. Further, instead of the first adhesive 934, a tape having adhesive on one or both of its surfaces may be used. The tape may include on one or both of its surfaces an adhesive which is soluble so as to dissolve in a solvent, or is photosensitive so as to lose adhesiveness when irradiated with light.

[0188] The first adhesive 934 may be a reactive-curing type adhesive, a thermal-curing type adhesive, an ultraviolet-curing type adhesive or other such photo-curing type adhesive, or may be an aerophobic-type adhesive, or other various types of curing adhesive. The composition of these adhesives may be, for example, epoxy-type, acrylic-type, silicon-type or anything else. However, since a light emitting element in which a layer containing an organic compound serves as a light emitting layer is weak against moisture and oxygen, a material with high barrier to moisture and oxygen is preferable. The application of such adhesives may be carried out by a coating method, for example. In this embodiment, for the first adhesive 934, used is a thermal-curing type adhesive.

[0189] The second substrate 935 may be constituted by a glass substrate, a quartz substrate, a ceramic substrate, a plastic substrate or the like. Further, it is also possible to use a semiconductor substrate such as a silicon substrate, or a metallic substrate such as a stainless steel substrate.

[0190] The present embodiment employs a highly rigid quartz substrate (thickness: 1.1 mm) for the second substrate