[0054] Weak adhesive layer **517**B contains the segments of thermoplastic elastomer having adhesive properties different from each other. The adhesive property of weak adhesive layer **517**B is adjusted easily depending on the mixture ratio of these segments. Thus, the adhesive property of weak adhesive layer **517**B may be adjusted according to the adhesive property of strong adhesive layer **517**A so as to allow touch panel **2001** to be peeled off from display element **510**.

[0055] Strong adhesive layer **517**A is made of material having an adhesion property ranging preferably from 1 N/cm to 10 N/cm as to have the adhesion property stronger than that of adhesion layer **517**B in order to allow layer **517**B having the weak adhesion property to remove from display element **1001** whenever touch panel **2001** is removed from display element **510**.

Exemplary Embodiment 3

[0056] FIG. **10**A is a sectional view of touch panel **2002** in accordance with Exemplary Embodiment 3 of the present invention. FIG. **10**B is a sectional view of input device **3002** in accordance with Embodiment 3. In FIGS. **10**A and **10**B, components similar to those of touch panel **2001** shown in FIG. **8**A and input device **3001** shown in FIG. **9** are denoted by the same reference numerals, and their descriptions are omitted.

[0057] Substrate **501** of touch panel **2002** is made of polycarbonate, polyether-sulfone. Subtrate **502** is made of polycarbonate, polyether-sulfone, or glass. Touch panel **2002** includes sheet **1516** instead of sheet **516** of touch panel **2001**. Sheet **1516** is made of polycarbonate or cyclo-olefin polymer film being drawn and having a birefringence property. Sheet **1516** produces a phase shifting by a ¼ wavelength.

[0058] Phase shifter plate **520** made of material identical to that of sheet **1516** is provided on upper surface **501**A of substrate **501**. Polarizing plate **521** is provided on upper surface **520**A of plate **520**. Polarizing plate **521** includes a layer of polyvinyl alcohol and layers of triacetyl cellulose on both surfaces of the layer of polyvinyl alcohol. The layer of polyvinyl alcohol is formed by adsorbing iodine and dye and then drawing and providing the layer with orientation. Sheet **1516** and phase shifter plate **520** provides touch panel **2002** of a circularly polarizing type.

[0059] An operator looks at display element **510** attached onto lower surface **1516**B of sheet **1516** through touch panel **2002** from above upper surface **521**A of polarizing plate **521**, similarly to touch panel **2001**. When external light, such as sunlight or lamplight, entering from above polarizing plate **521** transmits via polarizing plate **521**, polarizing plate **521** absorbs light, for example polarized in a Y-direction out of an X-direction and the Y-direction crossing perpendicularly to the X-direction. The external light passing through plate **521** becomes light linearly polarized in the X-direction, and enters to phase shifter plate **520**.

[0060] Then, this light passes through phase shifter plate **520** of a ¼ wavelength to have a polarizing surface of the light rotated by 45 degrees, and then passes through substrate **510**, resistance layer **503**, and reflects on resistance layer **504** upwardly toward polarizing plate **521**.

[0061] The reflected light passes through plate **520** of ¼ wavelength again to have the polarizing surface rotated by 45 degrees, and thus, the light entering into polarizing plate **520** is shifted in its phase by a ½ wavelength, namely, the light has the polarizing surface rotated by 90 degrees. This light comes out from plate **520** again and enters to polarizing plate **521** which transmits light only in the X-direction, so that the light coming out from phase shifter plate **520** is cut off and cannot come out from upper surface **521**A.

[0062] Thus, the external light enters from above upper surface **521**A of polarizing plate **521** is reflected on resistance layer **504** upwardly. However, this reflected light is cut off by polarizing plate **521**, so that this light cannot come out from upper surface **521**A. This operation allows touch panel **2002** to be read easily, to have an excellent visibility, and to have no reflection.

[0063] In the case that display element **510** employs the LCD, the light coming out from display element **510** is polarized in a predetermined direction. Input device **3002** is placed to allow display element **510** to output light linearly polarized in the Y-direction. The light from display element **510** firstly transmits through sheet **1516** providing the phase shifting of a ¼ wavelength and phase shifter plate **520** providing the phase shifting of ¼ wavelength, so that the light becomes light linearly polarized shifted in phase by ½ wavelength. Since polarizing plate **521** transmits light polarized only in the X-direction, the light coming out from display element **510** and passing through sheet **1516** and phase shifter plate **520** can pass through polarizing plate **521**, and comes out from upper surface **521**A. Thus an operator can clearly reads a display on display element **510**.

[0064] Weak adhesive layer **517**B having the weak adhesion property provided on lower surface **1516**A of sheet **1516** allows touch panel **2002** to be removed from display element **510** easily, and prevents weak adhesive layer **517**B from remaining on an upper surface of display element **510**. Thus, touch panel **2002** removed from display element **510** can be mounted onto display element **510** again easily.

[0065] According to Embodiment 3, sheet **1516** attached onto lower surface **502**B of substrate **502** employs the phase shifter plate providing the phase shit of ¼ wavelength provides touch panel **2002** input device **3002** with touch panel **2002** including a small number of components, having an excellent visibility, and allowing the display element to be easily.

What is claimed is:

1. A touch panel comprising:

a first substrate being light-transmittable and having a first surface and a second surface opposite to the first surface, the first substrate having a first outer periphery;

a first resistance layer being light-transmittable and provided on the first surface of the first substrate;

a second substrate being light-transmittable and having a third surface and a fourth surface opposite to the third surface, the second substrate having a second outer periphery;

a second resistance layer being light-transmittable provided on the third surface of the second substrate, the second resistance layer facing the first resistance layer by a predetermined gap between the second resistance layer and the first resistance layer;

a spacer having substantially a frame shape provided between the first outer periphery of the first substrate and the second outer periphery of the second substrate;