

# All Products Containing Nypon Display/touch Module

US Patent No. 7,300,194

**Claims:**

1. A light emitting assembly comprising at least a light emitting panel member having a light emitting surface, at least one light source, at least one film, sheet, plate or substrate positioned near the light emitting surface through which light from the panel member is emitted, and an air gap between the film, sheet, plate or substrate and the panel member, wherein at least one surface of the film, sheet, plate or substrate has one or more reflective or refractive surfaces, and at least one of the reflective or refractive surfaces has well defined optical elements or deformities for controlling the emitted light such that at least some of the light is redirected to pass through a liquid crystal display with low loss.
4. The assembly of claim 1 wherein light from at least two light sources partially mixes in at least a portion of the light emitting assembly.
5. The assembly of claim 4 wherein the portion of the light emitting assembly in which the light partially mixes is the panel member.
6. The assembly of claim 4 wherein the portion of the light emitting assembly in which the light partially mixes is the air gap.

**Claims:**

16. A light emitting assembly comprising at least a tray that forms a cavity or recess, at least one light source positioned within the cavity or recess, at least one film, sheet, plate or substrate positioned over the cavity or recess through which light from the light source is emitted, wherein at least one surface of the film, sheet, plate or substrate has one or more reflective or refractive surfaces, and at least one of the reflective or refractive surfaces has well defined optical elements or deformities for controlling the emitted light such that at least some of the light is redirected to pass through a liquid crystal display with low loss.
22. The assembly of claim 16 wherein the tray holds or positions the one film, sheet, plate or substrate relative to the one or more light sources.
23. The assembly of claim 16 wherein an additional transparent film, sheet, plate or substrate is positioned near the one film, sheet, plate or substrate to redirect at least a portion of the emitted light to produce a desired light output distribution or effect.
27. The assembly of claim 23 wherein the additional film, sheet, plate or substrate is a diffuser or brightness enhancement film.

**Claims:**

31. A light emitting assembly comprising at least a tray that forms a cavity or recess, at least one light source positioned within the cavity or recess, at least one film, sheet, plate or substrate positioned over the cavity or recess through which light from the light source is emitted, wherein at least one surface of the film, sheet plate or substrate has one or more reflective or refractive surfaces that are well defined optical elements or deformities for controlling the light output ray angle distribution of the light emitted to suit a particular application.

1. A light emitting assembly comprising

**Comment:** The graphical representation below is provided as a simplified example of a generic light emitting assembly and LCD panel to demonstrate the relative arrangement of some elements discussed in this chart.

The specific BLU discussed in this chart contains the general elements shown on the right.

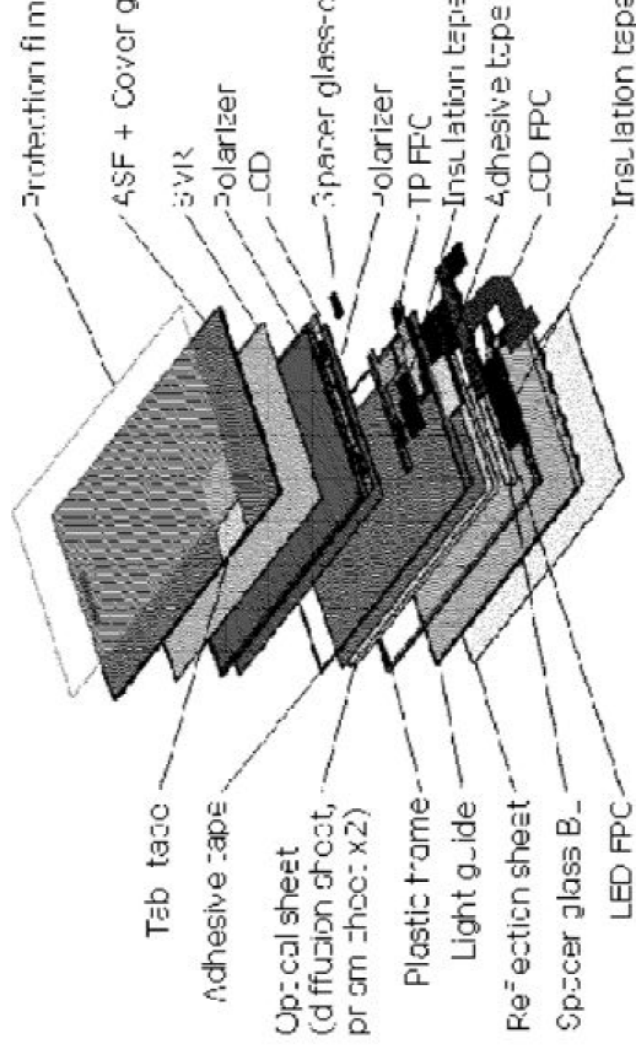
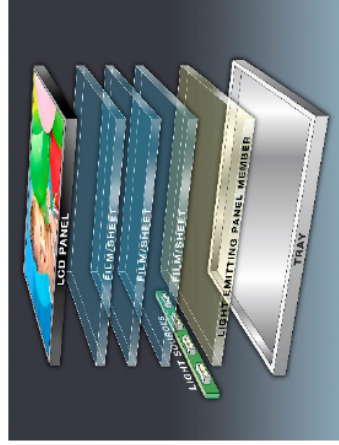


Figure 1: Structure breakdown

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