

All Products Containing Nypon Display/touch Module

US Patent No. 7,384,177

Claims:

1. A light emitting assembly comprising a tray having a back wall and continuous side walls that form a hollow cavity or recess completely surrounded by the side walls, at least one light source located, mounted or positioned in the cavity or recess, and at least one sheet, film or substrate overlying the assembly for controlling the light emitted from the assembly to fit a particular application, wherein the tray acts as at least one of a back, side edge, and end edge reflector and has one or more secondary flat, angled, faceted or curved reflective or refractive surfaces to redirect at least a portion of the light emitted by the light source in a predetermined manner within the cavity or recess.
6. The assembly of claim 1 wherein there are at least two light sources located, mounted or positioned in the cavity or recess.
7. The assembly of claim 6 wherein each light source is positioned in close proximity to a group of the refractive or reflective surfaces.
9. The assembly of claim 6 wherein a portion of the light emitted from the light sources mixes in the cavity or recess.
10. The assembly of claim 9 wherein the sheet, film or substrate provides additional light mixing.

Claims:

13. The assembly of claim 1 wherein there is at least one sheet, film or substrate that is a diffuser, colored film or filter, label, transparent or semi-transparent overlay, label or display, reflector, polarizer or reflective polarizer.
14. The assembly of claim 1 wherein the at least one sheet, film or substrate has deformities for controlling the light output ray angle distribution to fit a particular application.
15. A light emitting assembly comprising a tray having a back wall and continuous side walls that form a hollow cavity or recess completely surrounded by the side walls, at least two light sources located, mounted or positioned in the cavity or recess, and at least one sheet, film or substrate overlying the assembly for controlling the light emitted from the assembly to fit a particular application, wherein the tray acts as at least one of a back, side edge and end edge reflector and has at least one secondary flat, angled, faceted or curved reflective or refractive surface to facilitate better mixing of light rays within the cavity or recess to produce a desired light output color or uniformity.
19. The assembly of claim 15 wherein at least some of the light sources are LEDs.

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.

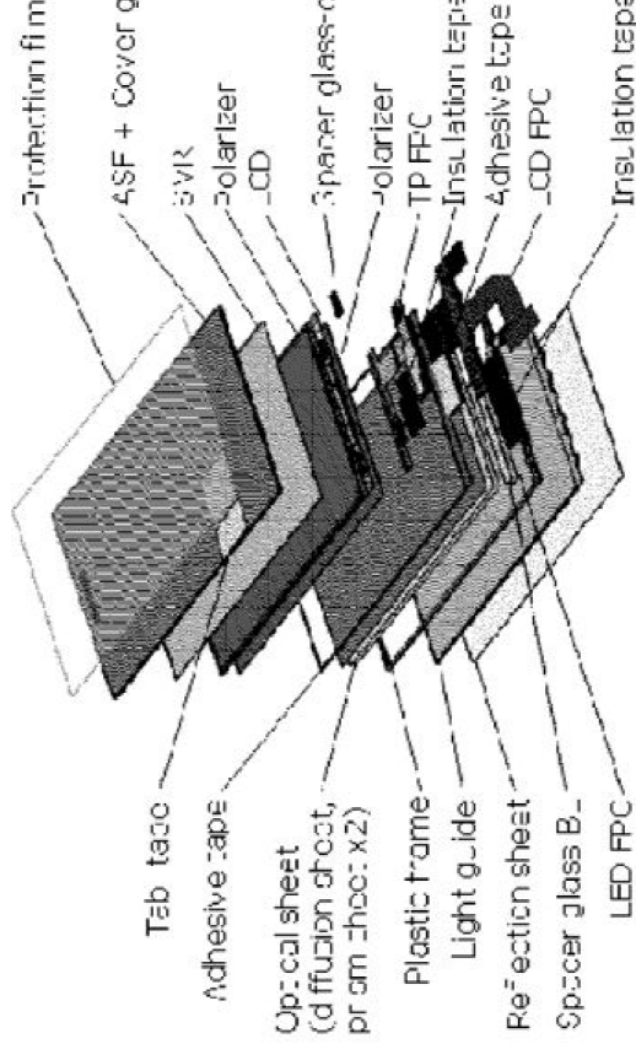
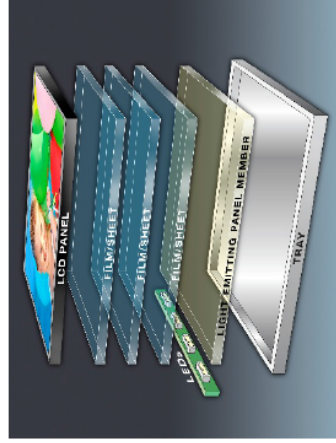
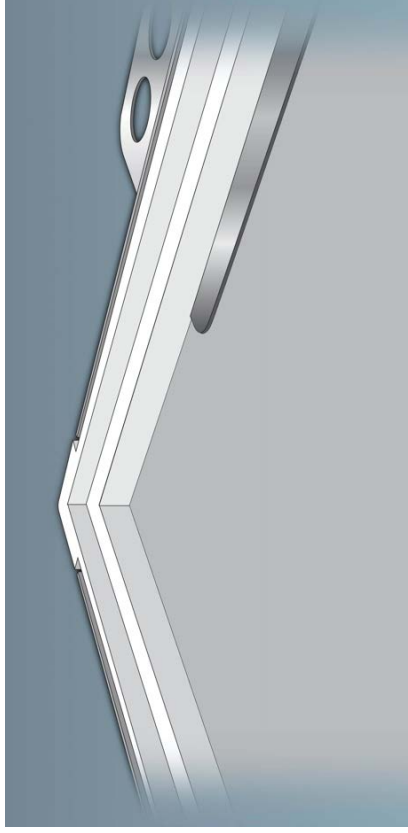


Figure 1: Structure breakdown

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a tray having a back wall and continuous side walls that form a hollow cavity or recess completely surrounded by the side walls,

Tray



Comment: The light emitting assembly includes a tray having a back wall and continuous side walls that form a hollow cavity or recess completely surrounded by the side walls as generally depicted in the figure on the top. The product specification shows that the assembly includes a tray as described.

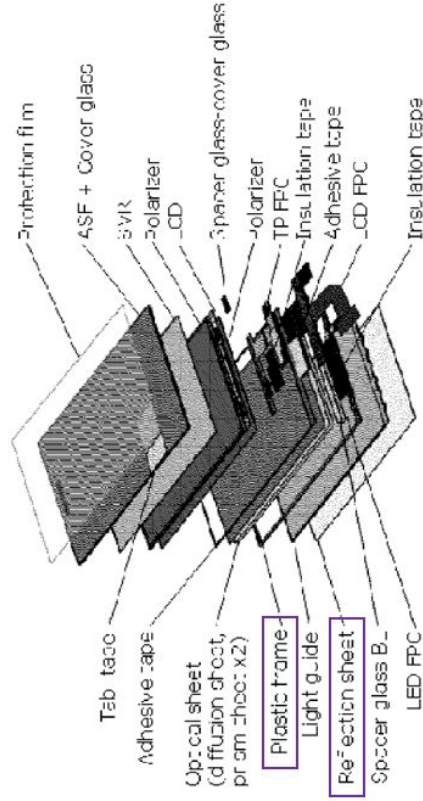


Figure 1: Structure breakdown

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