

Abstract of the Disclosure

Title: SHOCK RESISTANT MOUNTING FOR SMALL DISPLAY SCREEN

The display screen unit of a cell phone or PDA is carried in a mounting frame, which is bolted into the casing. The screen unit is sandwiched between cushioning layers of foam. The screen unit can move laterally, relative to the mounting frame, putting the foam in shear, in response to an edge or corner impact. Springy tabs are bent up from the metal backing plate of the screen unit, and these springy tabs serve to cushion the impact of the screen unit against the mounting frame, in response to the edge or corner impact, leading to a marked improvement in drop test performance. As a production-line benefit, the springy tabs also permit the screen unit to rest on the lip of the mounting frame, enabling the screen unit to be accurately positioned in the mounting frame just before the screen unit is finally pressed down into contact with the securing adhesive.

(Fig. 4)