AMBIENT LIGHT ABSORBING FACE PLATE FOR FLAT PANEL DISPLAY

Abstract of the Disclosure

A computer image display device includes a light transparent glass anode plate (10) spaced from a cathode substrate (12) which has a plurality of microtips (14). Plate (10) has an inside surface (25) which is contoured with an array of prisms (36) having equal sides (58, 59) that converge rearwardly toward apexes (38) of peaks (36). Apexes (38) are covered with light absorbing material (47), then covered at anode comb forming regions (51, 52, 53) with conductive material (48). Different color luminescing phosphors (24a, 24b, 24c) are applied over the respective anode combs (51, 52, 53). Sides (58, 59) direct ambient light toward apexes (38) for absorption by material (47). Light emitted by phosphors (24a, 24b, 24c) is directed by valleys (60) toward outside surface (35) of plate (10).

Figure 2