

ABSTRACT

The present invention provides a dye-sensitized solar cell which can obtain a high photoelectric conversion efficiency, which can be manufactured at a low cost, and which is superior in a design property, and a method of manufacturing the same. Dye supporting porous titanium oxide layers 2a to 2d are formed on a transparent conductive substrate 1 so as to display predetermined colors, respectively, and compose predetermined patterns, respectively, in accordance with selection of a thickness, a lamination structure, a particle diameter of titanium oxide fine particles, or a combination ratio of two or more kinds of titanium oxide fine particles when titanium oxide fine particles are composed of the two or more kinds of titanium oxide fine particles different in particle diameter from one another. The transparent conductive substrate 1 having the dye supporting porous titanium oxide layers 2a to 2d formed thereon, and a transparent conductive substrate 3 having a counter electrode 4 formed thereon are stuck to each other through a seal material 5 so that the dye supporting porous titanium oxide layers 2a to 2d, and the counter electrode 4 face each other, and a space defined between the transparent conductive substrate 1 and the

transparent conductive substrate 3 is enclosed with an electrolyte layer 6, thereby forming a dye-sensitized solar cell.