

ABSTRACT

The present invention relates to a method of manufacturing a photoelectric conversion device in which selective dye adsorption can be performed easily. In the step of a dye adsorbing process, a material unit 21 having partition walls of a predetermined shape is placed over semiconductor electrodes 12₁ to 12₃, which are a titanium oxide electrode. The material unit 21 is laminated by a UV cure adhesive. Dye solutions S₁ to S₃ obtained by dissolving each of three kinds of dyes of N719, Black dye, and D149, for example, into a CH₃CN/t-BuOH mixed solution are put in each of sections divided by the partition walls. The material unit 21 is inverted in that state, and left standing still for 24 hours. Then, the adhesive is removed after passage of the 24 hours. Thus, the semiconductor electrodes 12₁ to 12₃ having regions corresponding to the sections which regions are colored with the three different kinds of dyes are obtained. The present invention is applicable to a method of manufacturing a dye sensitized solar cell.