ABSTRACT

A titanium dioxide film 2 having at least photocatalytic activity, whose light transmittance corresponding to light having a wavelength of 550 nm is not less than 50 % and thickness is 1 to 5 μ m or so, is formed on a transparent substrate 1 constituted by a glass plate or the like. Preferably, a precoat film 2, which has optical transmissivity and is constituted by a SiO_2 film having a thickness of 0.02 to 0.2 μ m or so, is provided between the transparent substrate 1 and the titanium dioxide film 2. Thereby, excellent photocatalytic action and optical transmissivity can be obtained. Moreover, members composing various structures such as a glass window, which are especially required to have optical transmissivity, can further have photocatalytic activities.