



ABSTRACT

A solar lighting apparatus according to the present invention is configured so that one lighting prism plate is rotatably arranged in a lighting portion or a plurality of lighting prism plates are rotatably arranged in the lighting portion at intervals of a predetermined distance, and a prism angle of each the lighting prism plate is controlled correspondingly to the height and azimuth of the sun so that the sunlight refracted by the lighting prism plates goes out in a predetermined direction. Therefore, the lighting prism plates and parts relevant thereto are formed under predetermined conditions.

A solar lighting controller in a solar lighting apparatus operated under predetermined conditions for improvement of lighting efficiency, reduction of consumed electric power, etc., the controller comprising a solar position detector, a central processing unit including an arithmetic operation storage means such as a micro computer and a necessary means such as an optical axis sensor.