

ABSTRACT

A solar cell including: a substrate having front and back surfaces, the back surface includes first, second and gap regions, the first and second regions are staggered and spaced from each other in a first direction, and each gap region is provided between one first region and one second region adjacent thereto by recessing toward interior of the substrate; a first conductive layer formed over the first region; a second conductive layer formed over the second region, the second conductive layer has a conductivity type opposite to the first conductive layer; a first electrode forming electrical contact with the first conductive layer; a second electrode forming electrical contact with the second conductive layer; and a boundary region between the gap region and the first and/or second conductive layer adjacent thereto, and a line-pattern concave and convex texture structure is formed on the back surface corresponding to the boundary region.

(Fig. 2)