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(54) Title: SOLAR CELL CUTTING METHOD

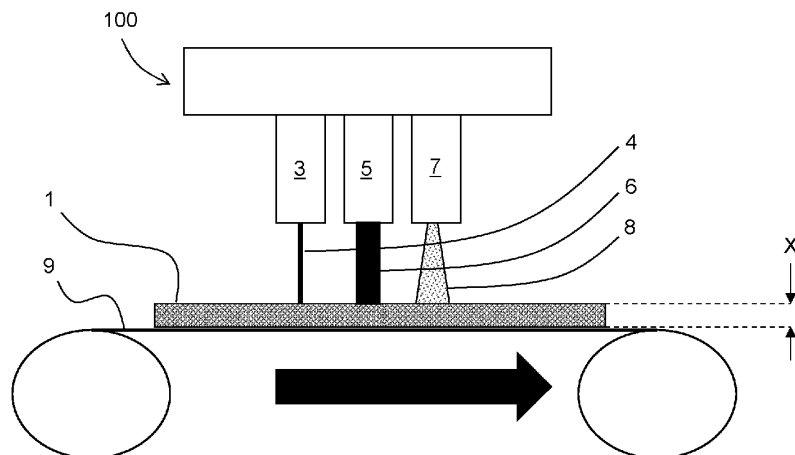


Fig. 1

(57) Abstract: Various embodiments provide a method for thermal separation of a solar cell into several parts. The method including steps of: operating a first laser according to a first set of predetermined operating parameters to form one or more crack initiation grooves on the solar cell; operating a second laser according to a second set of predetermined operating parameters to heat at least a part of the solar cell to form a locally heated region; and applying a cooling medium to the locally heated region of the solar cell to cool the locally heated region, thereby inducing thermal cracking of the solar cell in the locally heated region. At least one parameter of the second set of predetermined operating parameters is selected based on the thickness of the solar cell to be thermally separated.

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