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(54) **Title:** SOLAR CELL AND METHOD FOR FORMING THE SAME

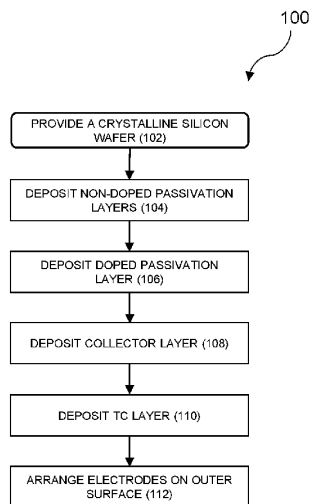


FIG 4

(57) **Abstract:** A method for manufacturing a solar cell, the method comprising providing a substrate, arranging a passivation region on a surface of the substrate and arranging a collector layer on a surface of the passivation region, the step of arranging the passivation region comprises; depositing a first passivation layer on the surface of the substrate using a first gas; and, depositing a second passivation layer onto the surface of the first passivation layer using a second gas; wherein the first and second gases each comprise hydrogen gas and a silicon-based gas, wherein the ratio of hydrogen gas to silicon-based gas of the second gas is up to 2.5, and at least 0.4, times the ratio of hydrogen gas to silicon-based gas of the first gas.

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