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(54) Title: QUANTUM TUNNELING PHOTODETECTOR ARRAY

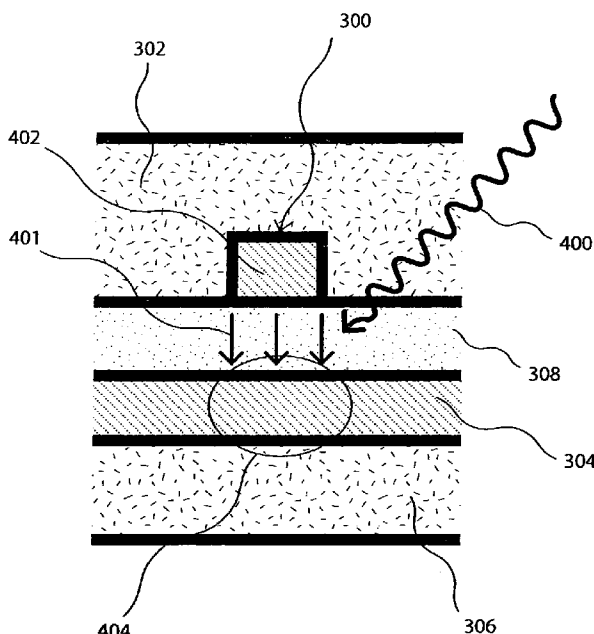


FIG. 4

(57) Abstract: A quantum tunneling photodetector array and a method of generating an image. The photodetector array comprises an array of pairs of opposing first and second electrodes; a photo-sensitive insulating material disposed between the opposing first and second electrodes of the respective pairs; an electrical circuit for detecting photo-assisted quantum tunneling currents between the opposing first and second electrode of the respective pairs.