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(54) **COMPUTATION OF GLINT, GLARE, AND SOLAR IRRADIANCE DISTRIBUTION**

(75) Inventors: **Clifford Kuofei Ho**, Albuquerque, NM (US); **Siri Sahib Singh Khalsa**, Albuquerque, NM (US)

(73) Assignee: **Sandia Corporation**, Albuquerque, NM (US)

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G01J 1/16 (2006.01)
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CPC ***G01J 1/1626*** (2013.01); *G01J 2001/4266* (2013.01); *Y02E 10/40* (2013.01)

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USPC 250/208.1, 203.3, 203.4; 356/445, 446, 356/448; 348/135; 353/3; 126/573, 574, 126/578, 600, 601
See application file for complete search history.

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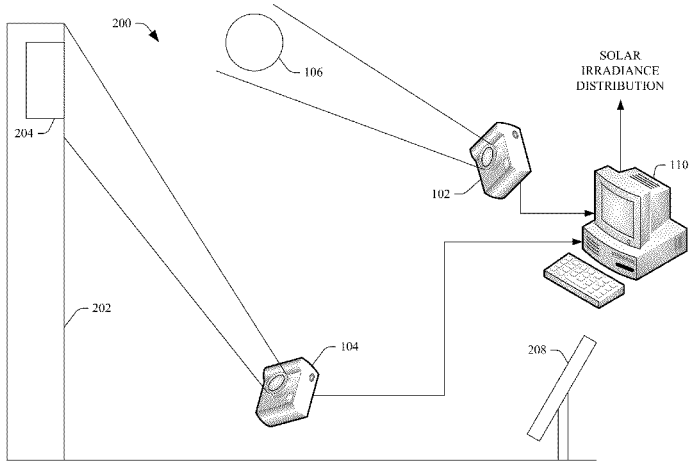
Primary Examiner — John Lee
(74) *Attorney, Agent, or Firm* — Daniel J. Jenkins

(57) **ABSTRACT**

Described herein are technologies pertaining to computing the solar irradiance distribution on a surface of a receiver in a concentrating solar power system or glint/glare emitted from a reflective entity. At least one camera captures images of the Sun and the entity of interest, wherein the images have pluralities of pixels having respective pluralities of intensity values. Based upon the intensity values of the pixels in the respective images, the solar irradiance distribution on the surface of the entity or glint/glare corresponding to the entity is computed.

12 Claims, 16 Drawing Sheets