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Rana et al.

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(54) **METHOD AND SYSTEM FOR GLINT/REFLECTION IDENTIFICATION**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

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CPC ***G06F 3/013*** (2013.01); ***G02B 27/0093*** (2013.01); ***G02B 27/0101*** (2013.01); ***G02B 27/017*** (2013.01); ***G02B 27/0172*** (2013.01); ***G06K 9/0061*** (2013.01); ***G06K 9/4642*** (2013.01); *G02B 2027/014* (2013.01); *G02B 2027/0118* (2013.01); *G02B 2027/0138* (2013.01); *G02B 2027/0187* (2013.01)

(58) **Field of Classification Search**

None

See application file for complete search history.

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(57) **ABSTRACT**

A method of identifying scleral reflections in an eye tracking system is disclosed. A glint is identified in an image from an image sensor, wherein the glint is a representation in the image of a reflection of light from a cornea of the eye of the user or from a sclera of the eye of the user. A first pixel intensity of the glint is determined, a second pixel intensity of neighbor pixels of the glint is determined, and an absolute value of the difference between the first pixel intensity of the glint and the second pixel intensity of the neighbor pixels of the glint is determined. The glint is identified as a representation of a reflection from the sclera of the eye of the user on condition that the determined absolute value of the difference is below a predetermine threshold value.

8 Claims, 5 Drawing Sheets