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(12) **United States Patent**  
**Hernandez et al.**

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(54) **STRAY LIGHT BAFFLE FOR A SEEKER OR OTHER SENSOR SYSTEM AND A METHOD FOR MAKING THE SAME**

(58) **Field of Classification Search**  
USPC ..... 244/3.1, 3.15, 3.16, 3.19; 250/237 R, 250/338.1, 339.01, 339.05; 359/601  
See application file for complete search history.

(75) Inventors: **Christopher L. Hernandez**, Corona De Tucson, AZ (US); **Nicholas B. Sacchetti**, Tucson, AZ (US); **Jason R. Petty**, Sahuarita, AZ (US); **Lawrence A. Westhoven, Jr.**, Tucson, AZ (US)

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(73) Assignee: **Raytheon Company**, Waltham, MA (US)

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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 279 days.

*Primary Examiner* — Mark R Gaworecki

(74) *Attorney, Agent, or Firm* — Renner, Otto, Boisselle & Sklar, LLP

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(57) **ABSTRACT**

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A stray light baffle for a seeker or other sensor system and a method for making the same are provided. The seeker, for example, may include a first receiver configured to receive an infrared signal, a second receiver configured to receive a radio frequency signal, a dichroic mirror configured to reflect the infrared signal toward the first receiver and to transmit the radio frequency signal toward the second receiver, and a stray light baffle having a coarse surface comprising a plurality of peaks and a plurality of valleys, wherein an average height of the plurality of peaks is greater than or equal to an average width of the plurality of valleys.

(65) **Prior Publication Data**

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**G02B 5/00** (2006.01)  
**G01J 5/02** (2006.01)

(52) **U.S. Cl.**  
USPC ..... **250/339.01; 359/604**

**20 Claims, 6 Drawing Sheets**

