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**Soehnel et al.**

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(54) **INFRARED DETECTOR DEVICE INSPECTION SYSTEM**

(52) **U.S. Cl.**  
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(58) **Field of Classification Search**  
CPC combination set(s) only.  
See application file for complete search history.

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PUBLICATIONS

(\* ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 6 days.

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(57) **ABSTRACT**

**Related U.S. Application Data**

Methods and apparatuses for identifying carrier lifetimes are disclosed herein. In a general embodiment, a beam of light is sent to a group of locations on a material for an optical device. Photons emitted from the material are detected at each of the group of locations. A carrier lifetime is identified for each of the group of locations based on the photons detected from each of the group of locations.

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**23 Claims, 11 Drawing Sheets**

