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SHIMADA et al.(10) **Pub. No.: US 2024/0213281 A1**(43) **Pub. Date: Jun. 27, 2024**(54) **LIGHT RECEIVING ELEMENT AND
DISTANCE MEASURING SYSTEM**(71) Applicant: **SONY SEMICONDUCTOR
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ABSTRACT

The present technology relates to a light receiving element and a distance measuring system capable of achieving high PDE while preventing edge break.

A light receiving element includes a pixel in which a multiplication region is formed in a region where a first semiconductor region of a first conductivity type and a second semiconductor region of a second conductivity type opposite to the first semiconductor region are joined, and a planar region of the second semiconductor region formed at a position closer to a light receiving surface than the first semiconductor region is formed to be larger. The present technology can be applied to, for example, a distance measuring system or the like that detects a distance to a subject in a depth direction.

