

# PET (Positron Emission Tomography )

1mm size of Cancer can be detected!!

## Summary

A semiconductor 2D position detector for two-dimensionally detecting positions of radiation is a Schottky diode comprising: a semiconductor substrate 2; a first to an nth ( $n$  is an integer of 2 or higher) stripe electrodes 3 arranged on the surface 2A of the semiconductor substrate 2 at given intervals in the X direction and in parallel to the Y direction; and an electrode 15 formed on the rear surface 2B of the semiconductor substrate 2. The top and the bottom ends of each of the stripe electrodes 3 are sequentially connected via a resistor 4, 5, and signals  $V_1$  to  $V_4$  output from the radiation 16 applied to the semiconductor substrate 2 are obtained from each of the both ends of the first and the nth stripe electrodes placed far left and right.

## Effect/Application

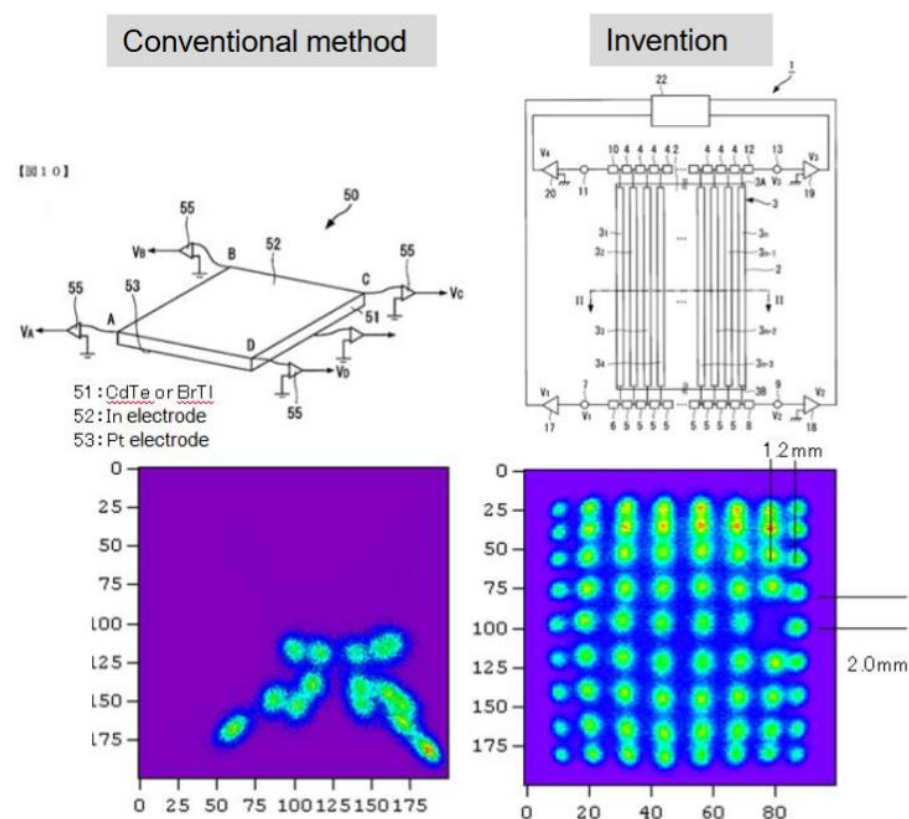
- Semiconductor detector for two-dimensionally detecting radiation positions
- PET (Positron Emission Tomography )

## Patent Data Sheet

5622339 (JP)、8,785,865 (US) (T08-098)

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## Characteristics



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