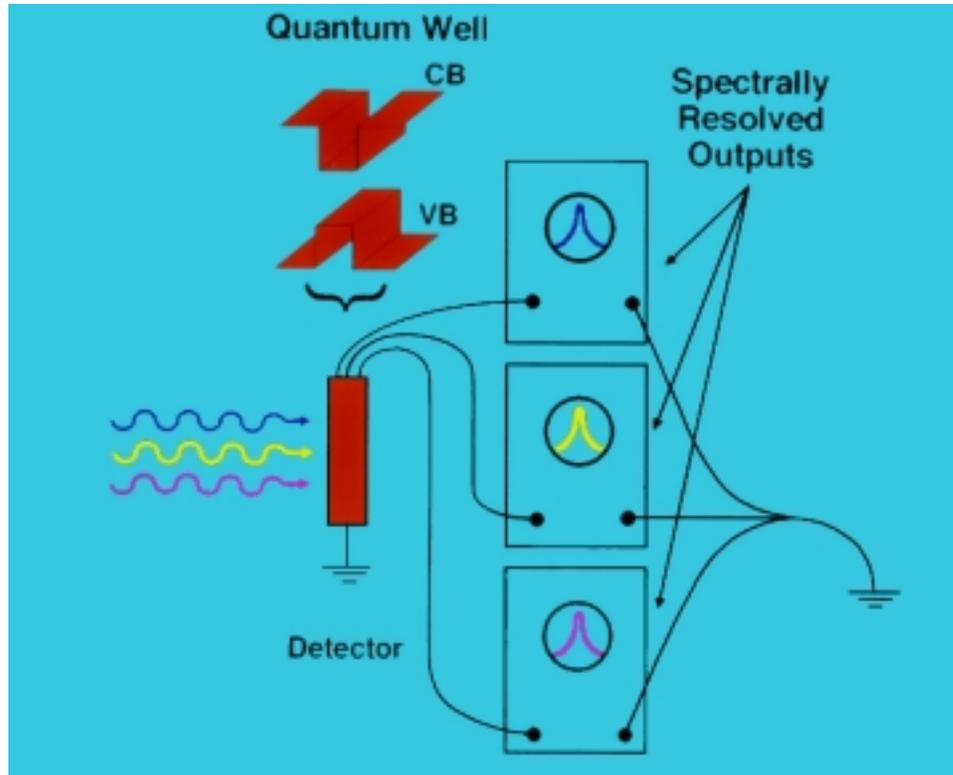


MULTIBAND PHOTOCONDUCTIVE DETECTOR BASED ON LAYERED SEMICONDUCTOR QUANTUM WELLS



A multiband photoconductive detector and method for simultaneously and separately detecting and distinguishing light or radiation from a large number of different wavelength bands is disclosed. The multiband photoconductive detector is composed of many low and high energy gap semiconductor layers arranged and adapted for separate bias conditions to detect various wavelengths of light. The multiband detector can be used for a variety of applications where the need to discriminate between sources of different wavelengths is important. In addition, the detector can be tailored to detect sources for which spectral emissions are known.

Advantages include:

- Combines the functions of spectrometers and detectors into a single, integrated package of compact size
- Design is applicable to focal plane array geometry
- Spectral ranges and resolutions are tunable.

Patent licenses are available to companies with commercial interests.

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