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(54) Title: THz PHOTOMIXER EMITTER AND METHOD

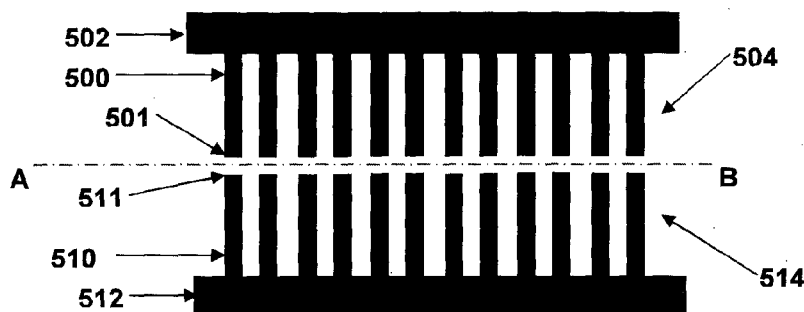


Fig. 5

(57) Abstract: A THz photomixer emitter (104) is disclosed. The emitter comprises a photoconductive material (703), an antenna structure (701), and an electrode array (704). The electrode array is disposed such that an electric field associated with photocarriers generated in the photoconductive material is coupled to the antenna (701) for emission of a THz wave via the antenna structure. The electrode array is configured such that an electric field resonance pattern of the electrode array is substantially aligned with an emission field pattern of the antenna structure.