

ABSTRACT

LIGHT DETECTING AND RANGING (LiDAR) DEVICES AND THE LIKE

- 5 An antenna or antenna array for a steerable light beam, the antenna array comprising a plurality of linear antenna arrays (100), each linear antenna array comprising: a plurality of antenna elements (104); a waveguide (102) supporting the antenna elements having a length and a thickness; and a control element (400, 402, 404), adjacent to the waveguide, arranged to induce a change in refractive index along at least a part of the length of the waveguide and
- 10 in at least a part of the thickness of the waveguide, wherein the change in refractive index in the waveguide causes a phase shift in light emitted via each of the plurality of antenna elements.

[Figure 2]