



PCT

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- (54) Title:** COMPACT MULTI-COLUMN ANTENNA

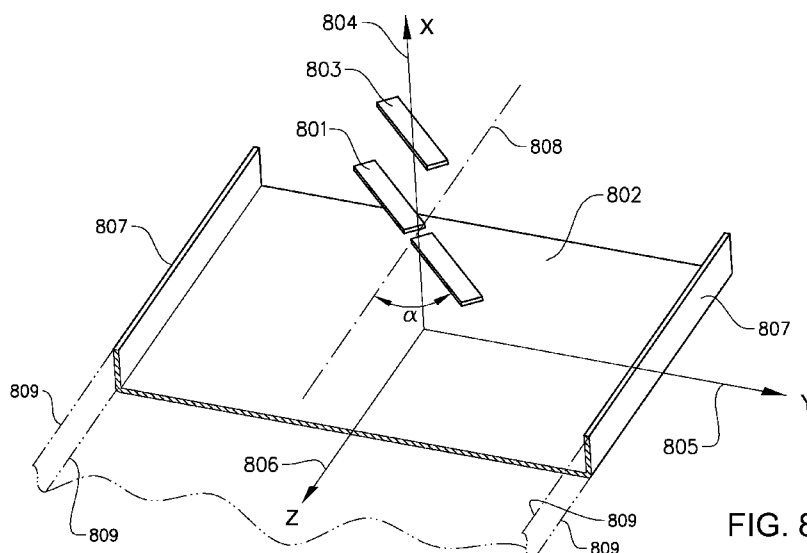


FIG. 8

- (57) Abstract:** The invention provides an antenna arrangement having an operating frequency band with a mean wavelength λ and comprising at least two columns of antenna elements with at least two antenna elements in each column. Each column of antenna elements extends above a separate elongated column ground plane with a column separation defined as a distance between mid-points of neighbouring column ground planes. The antenna elements in each column are located along a column axis pointing in a longitudinal direction of the column ground plane wherein all column separations are below $0,9\lambda$ and wherein a parasitic element extends above at least one antenna element in each column. Parameters of the parasitic element are adapted for proper excitation thus achieving a reduced beamwidth for each of said columns of antennas. The invention also provides a method to manufacture the antenna arrangement.