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(54) Title: BROADBAND CIRCULARLY POLARIZED PATCH ANTENNA

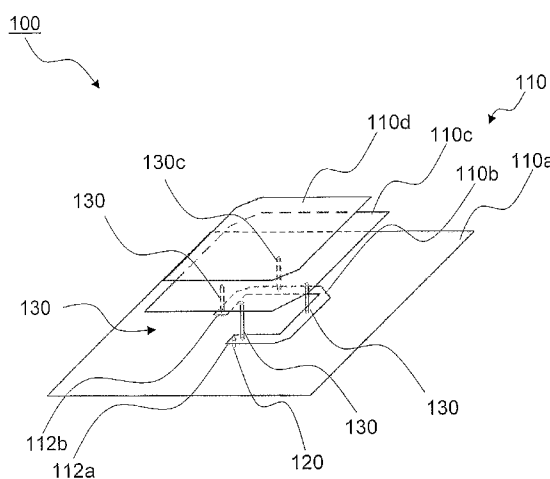


Fig. 1a

(57) Abstract: An antenna structure for providing a broadband circularly polarized radiation. The antenna structure comprises a feed line layer having an input portion and a first radiating patch layer stacked adjacent to the feed line layer. The feed line layer is shaped and dimensioned as an open loop having an input portion and signals are feedable to the feed line layer via the input portion. The first radiating patch layer has a reference origin defined thereon. The antenna structure also comprises a plurality of probes disposed between the feed line layer and the first radiating patch layer for coupling therebetween. The signals are feedable to the first radiating patch layer via the plurality of probes and each of the plurality of probes are positioned about the reference origin of the radiating patch layer along the length of the feed line layer. The signals achieve a phase difference for providing circularly polarized radiation in response to being fed via the plurality of probes being positioned about the reference origin of the radiating patch layer along the length of the feed line layer.

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