

ABSTRACT

The invention relates to an array antenna comprising a plurality of mechanically separate radiating panels (300-1, 300-N) arranged side-by-side, means (351-1, 35M-1, 351-N, 35M-N) for applying a shaping to the signals transmitted by the radiating elements of the panels and a device (361) for managing the shaping of the signals, wherein the shaping coefficients correspond to a sum of at least:

- a shaping coefficient (W_{co}) making it possible to orient the maximum gain of the antenna in a given direction, and
- at least the opposite of a shaping coefficient (W_c) making it possible to orient the maximum gain of the antenna in the direction of a side lobe resulting from differences between the radiating panels of the array antenna.

The method relates also to the associated transmission/reception method.

Figure for the abstract: Fig. 3