

Title (en)

SYSTEM FOR EMITTING ELECTROMAGNETIC BEAMS, COMPRISING A NETWORK OF ANTENNAE

Title (de)

SYSTEM ZUR ELEKTROMAGNETISCHEN STRAHLENEMISSION MIT EINEM ANTENNENNETZWERK

Title (fr)

SYSTÈME D'ÉMISSION DE FAISCEAUX ÉLECTROMAGNÉTIQUES À RÉSEAU D'ANTENNES.

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Application

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Abstract (en)

[origin: WO2010084116A1] The invention relates to a system for emitting electromagnetic beams, comprising a network (2) of elements for the far-field emission of electromagnetic beams, the signals coming from and/or arriving towards each element weighted by excitation coefficients digitally determined by calculation means. According to the invention, the system comprises: a second separate network of sensors (10) arranged close to the network (2) of radiating elements in order to measure the near field (E_{pj}) radiated by the elements, means for calculating the far field radiated by the network (2) from the near field (E_{pj}) actually measured by the sensors (10), and means for calculating the correction of the excitation coefficients of the elements (2) from the difference between the far field calculated from the measurement of the near field (E_{pj}) and a pre-determined nominal far field.

IPC 8 full level

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