Title (en)

METHOD FOR INTEGRATING A "NETWORK" ANTENNA INTO A DIFFERENT ELECTROMAGNETIC MEDIUM, AND ASSOCIATED ANTENNA

Title (de)

VERFAHREN ZUR INTEGRATION EINER »NETZWERK -ANTENNE IN EIN ANDERES ELEKTROMAGNETISCHES MEDIUM UND ZUGEHÖRIGE ANTENNE

Title (fr)

PROCEDE D'INTEGRATION D'UNE ANTENNE " RESEAUX " DANS UN MILIEU DE NATURE ELECTROMAGNETIQUE DIFFERENTE ET ANTENNE ASSOCIEE

Publication

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Application

EP 19832904 A 20191218

Priority

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- EP 2019086043 W 20191218

Abstract (en)

[origin: WO2020136059A1] The invention relates to a method for integrating a network antenna (A) into a medium (M), the antenna comprising a plurality of radiating elements (ERT) that ensure the transition between the antenna and the medium, the reflectivity of each element depending on a parameter, the reflectivity of a first element being close to that of the medium, the reflectivity of a last element being close to that of the antenna, and the reflectivity parameter of the elements varying from one element to the next. The method according to the invention comprises the following steps: - Step 1: computing a path equal to the sum of the variations in reflectivity from one element to the next element; - Step 2: optimising the variation in the reflectivity parameter such that the radar cross-section of the antenna is as low as possible or such that the antenna best fulfils the radiation objectives; - Step 3: determining the different elements according to the parameter; - Step 4: simulating the overall reflectivity and/or radiation of the antenna.

IPC 8 full level

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CPC (source: EP US)

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