Title (en)

METHOD AND RECEIVER FOR IDENTIFICATION OF BROADCAST TRANSMITTERS, TRANSMITTING TERRESTRIAL DIGITAL BROADCAST SIGNALS

Title (de)

VERFAHREN UND EMPFÄNGER FÜR DIE IDENTIFIKATION VON RUNDFUNKSENDERN, DIE TERRESTRISCHEN DIGITALEN RUNDFUNKSIGNALEN AUSSTRAHLEN

Title (fr)

PROCÉDÉ ET RÉCEPTEUR POUR L'IDENTIFICATION D'ÉMETTEURS DE RADIO OU TELEDIFFUSION, QUI ÉMETTENT DES SIGNAUX DE RADIO OU TELEDIFFUSION NUMÉRIQUE TERRESTRE

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Application

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Abstract (en)

[origin: WO2012176108A1] A method is described for identifying transmitters (5-8) belonging to a single frequency network which transmit respective digital terrestrial radio-television signals, wherein each transmitter (5-8) transmits its own identifier coded in the service carriers of a plurality of N symbols (S40-S47) of a frame of the digital terrestrial radio-television signal, said method comprising the steps of: a) resolving, in the frequency domain and with respect to H, a linear system $Y = X \cdot H$, wherein the indexes i and j vary between 1 and N, and wherein: - Y is a vector of N elements, wherein one element Y_i of the vector Y represents a digital terrestrial radio-television signal acquired through a receiver (13) and relating to the i-th symbol of the plurality of N symbols of the frame; - X is a matrix having NxN size, wherein one element X_{ji} of the matrix X represents a signal contribution that the receiver (13) would receive if the j-th transmitter were the only one to transmit on an ideal transmission channel the digital terrestrial radio-television signal relating to the i-th symbol; - H is a vector of N elements, wherein the element H, of the vector H represents the channel frequency response relating to the i-th transmitter; b) identifying each transmitter (5-8) through the respective identifier and the respective channel frequency response module.

IPC 8 full level

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