

Title (en)

METHOD FOR FINE SYNCHRONISATION ON A SIGNAL RECEIVED FROM A TRANSMISSION CHANNEL

Title (de)

VERFAHREN ZUR FEINEN SYNCHRONISIERUNG AUF EINEM VON EINEM ÜBERTRAGUNGSKANAL EMPFANGENEN SIGNAL

Title (fr)

PROCEDE DE SYNCHRONISATION FINE SUR UN SIGNAL RECU D'UN CANAL DE TRANSMISSION

Publication

**EP 1084547 A1 20010321 (FR)**

Application

**EP 99914586 A 19990409**

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Abstract (en)

[origin: WO9953645A1] The invention concerns a method for fine synchronisation on a reception signal (S) corresponding to a reference signal (TS) transmitted in a transmission channel, comprising the following steps: selecting a signal source producing a characterisation signal (X) following its passage in the transmission channel; establishing a characterisation matrix (L) to estimate the characterisation signal (X) covariance; identifying characteristic modal values which are the highest characteristic values ( $\lambda > i$ ) of said characterisation matrix (L); computing the source signal correlation function  $c(t)$  with the sum of characteristic vectors ( $v > i$ ) associated with the characteristic modal values; searching said correlation function  $c(t)$  first maximum.

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