

Title (en)

Spread spectrum digital transmission system with low frequency pseudorandom coding of the useful information and method for spectrum spreading and compressing used in such a system.

Title (de)

Digitales Spreizspektrumübertragungssystem mit Niederfrequenz-Pseudozufallkodierung von Nutzinformation und Verfahren zur Spektrumsspreizung und Spektrumskomprimierung zur Verwendung in einem solchen System.

Title (fr)

Système de transmission numérique à étalement de spectre obtenu par codage pseudo-aléatoire basse fréquence de l'information utile et procédé d'étalement et de compression de spectre utilisé un tel système.

Publication

**EP 0629059 A1 19941214 (FR)**

Application

**EP 94401282 A 19940608**

Priority

FR 9306936 A 19930609

Abstract (en)

System and method for combining, within a transmitter, each block of a digital signal to be transmitted with a sample originating from a pseudo-random generator operating at low frequency. The results of the various combinations are converted into orthogonal or quasi-orthogonal sequences, modulated and transmitted to the receiver. The receiver performs demodulation of the signal received and combines each sequence with a sample identical to that used for the low-frequency coding within the transmitter in order to reconstitute the various blocks. Makes it possible to carry out low-frequency spectral spreading of a signal to be transmitted. <IMAGE>

IPC 1-7

**H04K 1/02**

IPC 8 full level

**H04K 1/02** (2006.01)

CPC (source: EP US)

**H04K 1/02** (2013.01 - EP US)

Citation (search report)

- [A] US 4972474 A 19901120 - SABIN MICHAEL J [US]
- [A] GB 2233860 A 19910116 - STC PLC [GB]
- [A] US 4685132 A 19870804 - BISHOP F AVERY [US], et al
- [A] DE 2110468 C1 19780427 - SIEMENS AG

Designated contracting state (EPC)

DE ES FR GB IT NL SE

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**EP 0629059 A1 19941214; EP 0629059 B1 20010905**; CA 2125444 A1 19941210; DE 69428155 D1 20011011; ES 2162846 T3 20020116; FR 2706704 A1 19941223; FR 2706704 B1 19950713; US 5546423 A 19960813

DOCDB simple family (application)

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