

ABSTRACT:

Transmission system for correlated signals.

Signal transmission system comprising processing means (SEPAR) for isolating an estimate (I_L) for at least one wanted signal (X_L) contained in at least one mixed signal (E_a). At least one sensor (M_a) detects the mixed signal which includes at least the wanted signal (X_L) and at least two correlated interference signals (P_a , P_b) generated in response respectively to two correlated electric signals (CR_a , CR_b). The processing means (SEPAR) receive on the input the detected mixed signal (E_a) and the two correlated electric signals (CR_a , CR_b). By decorrelating the estimate (I_L) relative respectively to the correlated electric signals (CR_a , CR_b), the processing means extract the estimate (I_L) of the wanted signal (X_L) contained in the detected mixed signal.

Reference: Fig. 1

Applications: Stereophonic signal transmission systems, car radio, hifi system, television receiver, teleconference systems.