

ABSTRACT:

System for estimating signals received in the form of mixed signals.

Source separation system for processing input signals ($E_i(t)$) formed by instantaneous linear mixtures of primary signals ($X_j(t)$) that result from sources (S_1-S_n) and for producing at least one estimated primary signal ($\hat{X}_k(t)$). The system comprises separation means (10) and characterization means (15) which determine cumulants of the input signals
 5 for extracting estimated mixing coefficients ($\hat{\alpha}_{ij}$). Said coefficients are transformed into separation coefficients (C_{ki}, d_{ki}) in separation means (10).

The separation means (10) may have a direct structure or a recursive structure.

Application: Apparatus for receiving electric signals, sound signals,
 10 electromagnetic signals (antenna, car radio, telephone).

Fig. 1.