

Title (en)

METHOD AND APPARATUS FOR CODING SPEECH SIGNAL ENERGY IN VERY LOW BITRATE VOCODERS

Publication

EP 0341129 B1 19930623 (FR)

Application

EP 89401169 A 19890425

Priority

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Abstract (en)

[origin: JPH01319100A] PURPOSE: To reduce throughput by transforming a base in synthetic vector space, projecting a synthetic energy vector to an obtained new base and encoding vector components projected to the main axis of the new base and another main axis into respective prescribed bits. CONSTITUTION: A synthetic energy vector E is constituted so as to correspond to the sum of energy vectors E1 , E2 , measured by respective sound signal analyzing windows in vector space having the energy unit vectors E1 , E2 . The base is transformed in the vector space, the axis in the direction to which a unit vector having the unit vector of the 1st base as a components is turned is set up as a main axis, the components of a synthetic vector E projected to the main axis of the new base obtained by projecting the synthetic energy vector E to the newly obtained base are encoded to (q) bits and the components of an energy vector projected by the other axis are encoded to bits smaller than the (q) bits. Consequently the throughput is reduced.

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