

**METHOD AND APPARATUS FOR REPRODUCING SPEECH SIGNALS
AND METHOD FOR TRANSMITTING SAME**

ABSTRACT

An encoding unit 2 divides speech signals provided to an input terminal 10 into frames and encodes the divided signals on the frame basis to output encoding parameters such as line spectral pair (LSP) parameters, pitch, voiced(V)/ unvoiced (UV) or spectral amplitude A_m . The modified encoding parameter calculating unit 3 interpolates the encoding parameters for calculating modified encoding parameters associated with desired time points. A decoding unit 6 synthesizes sine waves and the noise based upon the modified encoding parameters and outputs the synthesized speech signals at an output terminal 37. Speed control can be achieved easily at an arbitrary rate over a wide range with high sound quality with the phoneme and the pitch remaining unchanged.

FIGURE 1