

ENCODER APPARATUS AND ENCODING METHOD

ABSTRACT

5 Provided is an encoder apparatus that can suppress the
quality degradation of encoding processes. An ultimate
selection candidate limiting unit (109) uses the spectrum of an
input signal and a residual spectrum to designate a given
number of pre-selected suppression factors to a CELP
10 component suppressing unit (104); the CELP component
suppressing unit (104) uses the designated suppression factors
to generate a suppressed spectrum; a CELP residual signal
spectrum calculating unit (105), to which the suppressed
spectrum is input, calculates a residual spectrum; a conversion
15 encoding unit (110) uses the residual spectrum to performs a
second encoding process; and a distortion evaluating unit (112)
determines one of the designated suppression factors by use of
the spectrum of a second decoded signal generated by decoding
a second code obtained by the second encoding process and
20 further by use of the suppressed spectrum and the spectrum of
the input signal.

Figure 1