

Title: BT Patent Application

Source: British Telecom

In accordance with the agreement on intellectual property in the Specialists Group, British Telecom discloses that it has made the following patent application in addition to those previously notified in Documents #262 and #371.

Bias Cancelling DCT Codec - 13 December 1988

A predictive decoder, eg a hybrid DCT interframe predictive decoder, reduces the tendency of long-term bias error in the decoded difference signal to accumulate in the predictor by periodically alternating the polarity of the bias error relative to the contents of the predictor. The inverse discrete cosine transform (IDCT) stage in the receiver is bracketed by switchable invertors which, when operating, invert the signal into the IDCT stage and then re-invert the signal, plus error, out of the IDCT stage, thereby inverting the error relative to the difference signal. Control means eg a pseudo-random number generator, switches the invertors in and out periodically such that over several frames each block spends an equal amount of time in 'normal' and 'inverted' mode.