

ABSTRACT OF THE DISCLOSURE

A method of measuring MPEG PCR jitter, frequency offset and drift rate uses a selectable, constant measurement bandwidth over non-uniform PCR arrival times and a variable PCR rate. The selectable, constant measurement bandwidth is fixed at a frequency that demarcates between jitter and wander. For each received PCR value a PCR interval is determined from the arrival time of the current PCR value and the arrival time of the preceding arrival time. The PCR values, intervals and the fixed bandwidth are input to a set of difference equations, derived either from a hybrid digital-analog PLL model where the frequency offset, drift rate and jitter are extracted from various points in the PLL feedback control system or from a linear filtering approximation to a least mean square (LMS) frequency offset and an LMS drift rate estimator of a simple second order time equation for the PCR values.

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