Title (en)
  DIGITAL INTERPOLATION FILTER

Title (de)
  DIGITALES INTERPOLATIONSFILTER

Title (fr)
  FILTRE D'INTERPOLATION NUMERIQUE

Publication
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Application
  EP 01947161 A 20010521

Priority
  • DE 0101957 W 20010521
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Abstract (en)
  [origin: WO0197376A1] The invention relates to a digital comb filter, which comprises n filter stages, whereby each filter stage has a retaining member located at the input of the filter stage. Said retaining member doubles the sampling rate by outputting each input data value twice. Each filter stage has a filter structure, the formula $H(z)$ a $(1 + z^{-1})^{k-1}$ being applied to the partial transmission function $H(z)$ of said structure. In said formula, k represents the order of the filter device and z^{-1} the z-transform of a delay at a sampling pulse. The inventive implementation of said filter does not require an error correction circuit.

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