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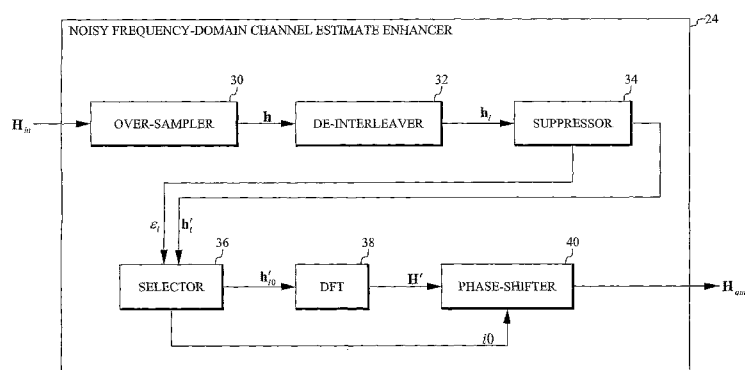


FIG. 10

(57) **Abstract:** A noisy frequency-domain channel estimate (H_{in}) enhancer (24) includes an over-sampler (30) configured to transform the noisy frequency-domain channel estimate (H_{in}) into a time-domain channel estimate (h) that is virtually over-sampled by an integer factor m . The over-sampler (30) is connected to a de-interleaver (32) configured to divide the time-domain channel estimate (h) into m de-interleaved sub-vectors (h_i). The de-interleaver (32) is connected to a suppressor (34) configured to suppress noisy taps from each de-interleaved sub-vectors (h_i) to form m noise suppressed sub-vectors (h'_i). The suppressor (34) is connected to a selector (36) configured to select a noise suppressed sub-vector (h'_{i0}) associated with a highest signal-to-noise ratio (γ_i). The selector (36) is connected to a discrete Fourier transformer (38) configured to transform the selected noise suppressed sub-vector (h'_{i0}) into a noise suppressed preliminary frequency-domain channel estimate (H'). The discrete Fourier transformer (38) is connected to a phase-shifter (40) configured to phase-adjust the taps of the noise suppressed preliminary frequency-domain channel estimate (H') to form an enhanced frequency-domain channel estimate (H_{out}).