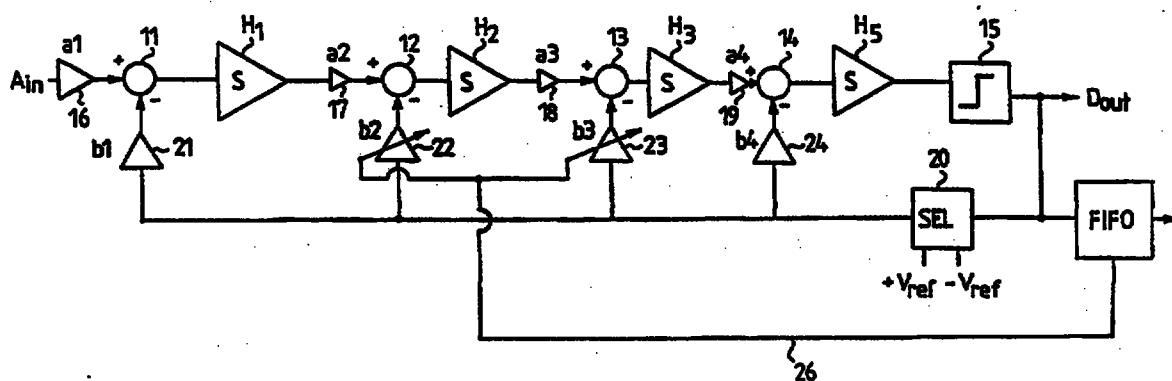




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(54) Title: OVERSAMPLED HIGH-ORDER MODULATOR**(57) Abstract**

The invention relates to an oversampled high-order modulator, especially a sigma-delta modulator, comprising cascaded integrators (H1, H2, ...HN) in a number corresponding to the order of the modulator, a quantizer (15), and a negative feedback (21, 22, 23, 24). The problem with the high-order modulators is that the modulator is locked in an unstable mode from which it should be restored without considerably interfering with the operation of the modulator. The invention achieves this by temporarily changing the value of the negative feedback to a direction which will restore the stable operation.