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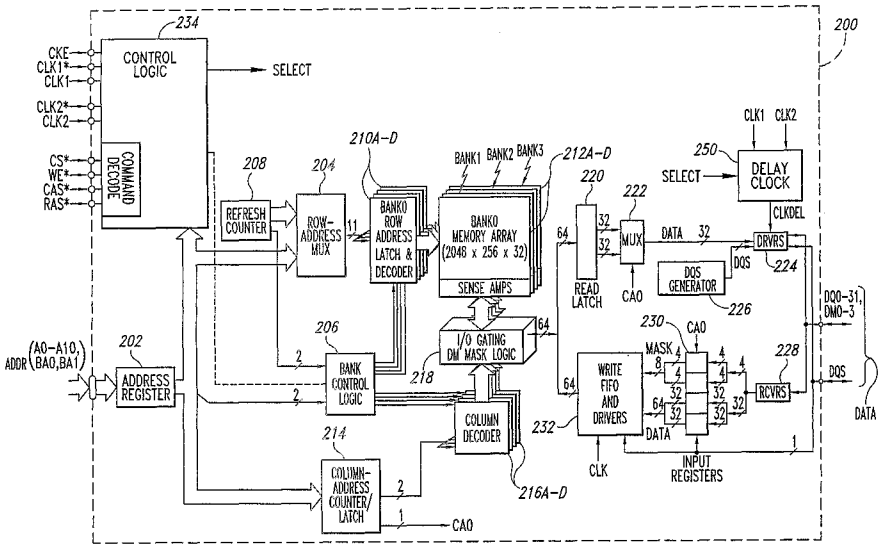
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(54) Title: MULTI-FREQUENCY SYNCHRONIZING CLOCK SIGNAL GENERATOR



(57) Abstract: An apparatus and method for generating a plurality of synchronizing signals for synchronizing operation of the device in which the apparatus is located, such as in semiconductor memory devices. The apparatus can generate a plurality of synchronizing signals based on a corresponding plurality of input clock signals and select one of the synchronizing signals to be provided as the synchronizing clock signal. Alternatively, the apparatus can generate a plurality of internal clock signals based on an input clock signal, and generate a corresponding plurality of synchronizing signals from the plurality of internal clock signals. One of the synchronizing signals is selected by the apparatus as the synchronizing clock signal. Alternatively, the apparatus can receive a clock signal, generate a synchronized clock signal therefrom, and generate a synchronizing pulse in response to number of periods of the synchronized clock signal, the number based on a selection signal provided to the apparatus.

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