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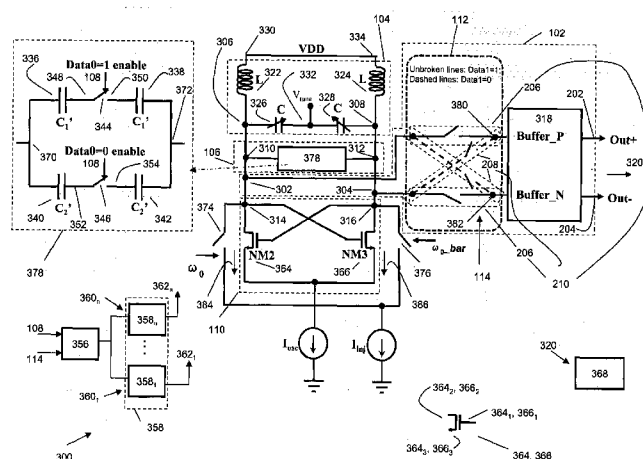
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(54) Title: PHASE SHIFT KEYING TRANSMITTER CIRCUIT



(57) Abstract: A phase shift keying transmitter circuit that includes: a variable frequency conversion stage adapted to receive a first data signal, wherein the variable frequency conversion stage comprises a plurality of frequency modulating elements, wherein the first data signal controls the number of the plurality of frequency modulating elements that are operated so as to control an operating frequency of the variable frequency conversion stage; and an output stage configured to switch between one of two possible outputs, the signals provided by one of the two possible outputs having an opposite polarity to the other, wherein the output stage is configured to receive a second data signal to control the switching between the two possible outputs, wherein the output stage is coupled to the variable frequency conversion stage and wherein the switching between the two possible outputs changes the phase of a signal from the variable frequency conversion stage by 180°.