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(54) Title: CRYSTAL OSCILLATOR WITH CONTROLLED DUTY CYCLE**(57) Abstract**

An oscillator circuit has a temperature and voltage compensating circuit (33), a variable current source (37), a duty cycle monitor and control circuit (35), a pull-down transistor (31) and an amplifier (39). Duty cycle monitor and control circuit (35) adjusts ramp-up current (I_{rmp}) such that node (V_a) reaches the threshold level of amplifier (39) at the same time during each cycle regardless of the duty cycle of pulse sequence (OSC).

