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(71) Applicant: CIRRUS LOGIC, INC. [US/US]; 3100 West Warren Avenue, Fremont, CA 94538-6423 (US).

(72) Inventors: ZHANG, Zhongxuan; 650 Fortuna Common, Fremont, CA 94539 (US). DU, He; 1182 West Hamilton Avenue #4, Campbell, CA 95008 (US).

(74) Agents: CHURCH, Shirley, L. et al.; Cirrus Logic, Inc., Building 5, 906, 3100 West Warren Avenue, Fremont, CA 94538 (US).

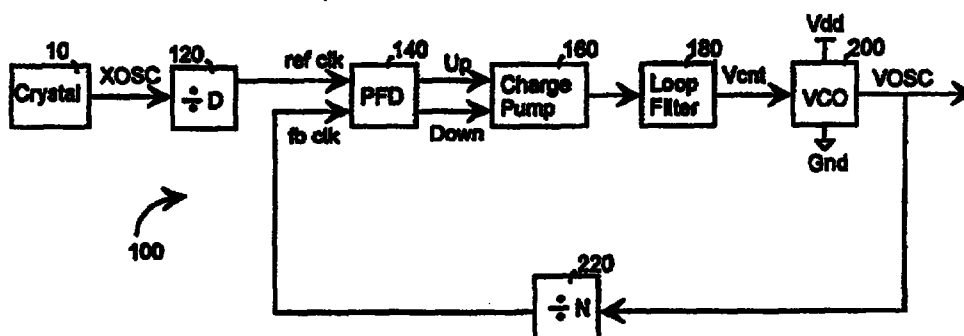
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(54) Title: VOLTAGE CONTROLLED OSCILLATOR INCLUDING VOLTAGE CONTROLLED DELAY CIRCUIT WITH POWER SUPPLY NOISE ISOLATION



(57) Abstract

A VCO includes a ring oscillator formed by connecting a plurality of voltage controlled inverting delay cells together, and a plurality of transistors for providing control voltages to the plurality of voltage controlled inverting delay cells. Preferably, each transistor has a drain connected to a reference voltage, and a source connected to a voltage controlled inverting delay cell paired to that transistor. Consequently, each transistor acts as a source-follower so that it provides a control voltage to its corresponding voltage controlled inverting delay cell which follows a control voltage driving its gate, thereby isolating the control voltage provided to its corresponding voltage controlled inverting delay cell from power supply noise.