



US006639476B1

(12) **United States Patent**
Sullivan

(10) **Patent No.:** **US 6,639,476 B1**
(45) **Date of Patent:** **Oct. 28, 2003**

(54) **CORRELATOR STABILIZED DIGITALLY TUNED OSCILLATOR SYNTHESIZER**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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(21) Appl. No.: **10/139,810**

(57) **ABSTRACT**

(22) Filed: **May 7, 2002**

A digitally tuned oscillator synthesizer having a correlator circuit and selectable voltage controlled oscillators is disclosed. The correlator circuit develops an accurate output which provides frequency stability for the synthesizer, whereas the voltage oscillators each operate over less than an octave of a desired RF frequency output, but cooperatively operate to produce RF outputs over a wide range of frequencies.

(51) **Int. Cl.⁷** **H03L 7/06**

(52) **U.S. Cl.** **331/17; 331/105**

(58) **Field of Search** 331/17, 2; 327/105,
327/106, 107; 375/376

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11 Claims, 5 Drawing Sheets

