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Lee et al.

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(54) **CIRCUIT FOR SPREAD SPECTRUM TRANSMISSION AND METHOD THEREOF**

(58) **Field of Classification Search**
USPC 375/135, 146, 371-376; 327/146-150, 327/155-159

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See application file for complete search history.

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(57) **ABSTRACT**

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A spread spectrum transmission circuit includes a phase locked loop composed of a filter. The phase locked loop generates a series of incremental control signals and decreasing signals based on the frequency difference and phase difference between a reference clock signal and a feedback signal. The circuit further has a frequency locked loop an amplitude locked loop, a digital-analog converter, an injection current source, an extraction current source, a multiplexer is connected to the locked phase loop and a rail-to-rail digital signal generator having an input connected to the multiplexer and an output connected to inputs of the locked frequency loop and the locked amplitude loop.

(30) **Foreign Application Priority Data**

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(52) **U.S. Cl.**
CPC **H04L 7/0331** (2013.01)
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6 Claims, 6 Drawing Sheets

