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Kermani

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[54] **RING OSCILLATOR CLOCK GENERATOR NETWORK**

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[52] **U.S. Cl.** **331/45; 331/46; 331/57;**
331/60

[58] **Field of Search** **331/45, 46, 50,**
331/57, 60

[56] **References Cited**
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[57] **ABSTRACT**

A clock generator having a ring structure and a chain structure. The ring structure is formed of an even number of serially connected distributed oscillator elements, and the chain structure is formed of an even number of serially connected distributed oscillator elements. The chain structure is coupled across an odd number of oscillator elements in the ring structure. The ring structure and chain structure, when connected together, generate a clock signal that can be extracted from any of the distributed oscillator elements.

15 Claims, 4 Drawing Sheets

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