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Automatic Frequency Control Apparatus

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Abstract of the Disclosure

The preferred embodiment of the present invention encompasses an automatic frequency control system implemented in a radiotelephone (101). The radiotelephone (101) includes a
10 frequency synthesizer. The frequency synthesizer uses a division ratio varied with time by a multi accumulator fractional N division system (140) such that the effective division ratio may be varied by non-integer steps. The division ratio is programmed to realize the desired channel frequency, the desired modulation
15 waveform, and any automatic frequency correction offset. An accurate clock is provided to the control (104) and the user interface (105) sections of the radiotelephone (101) using a second multiple accumulator fractional N division system (139). This second fractional N division system (139) is programmed based on
20 the automatic frequency control programming of the first fractional N division system (140). This lower frequency may then be multiplied in a phase locked loop to provide an accurate reference at a second reference frequency.

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