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(54) **FREQUENCY MULTIPLIER, SIGNAL TRANSMITTER AND RADAR CHIP**

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(57) **ABSTRACT**

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**Related U.S. Application Data**

(63) Continuation of application No. PCT/CN2023/102467, filed on Jun. 26, 2023.

Disclosed are a frequency multiplier, a signal transmitter and a radar chip. The frequency multiplier includes a signal generator that is configured to receive an FMCW signal and output a square wave signal at a frequency same as a frequency of the FMCW signal; and a third harmonic amplifier that is coupled to the signal generator and is configured to amplify a third harmonic wave in the square wave signal and output a frequency-tripled FMCW signal. The above-mentioned solution can improve the generation efficiency of the frequency-tripled signal.

