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(54) **Title:** APPARATUSES AND METHODS FOR SUPERPOSITION BASED WAVE SYNTHESIS

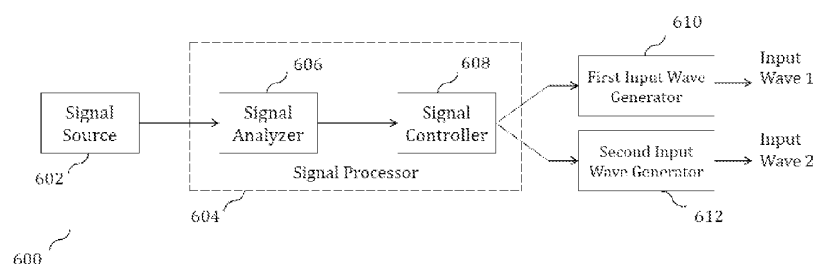


Figure 6

(57) **Abstract:** Apparatuses and Methods for Superposition Based Wave Synthesis The invention provides apparatus and methods for interference based wave synthesis. The invention comprises (i) receiving information defining output wave characteristics, said output wave characteristics comprising at least an output wave frequency B, and an output signal amplitude M, (ii) determining a constant value A and (iii) driving a first input wave generator to generate a first input wave and (iv) driving a second input wave generator to generate a second input wave, such that the interfered wave synthesized by interference of the first input wave and the second input wave has output wave characteristics defined by the received information.



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