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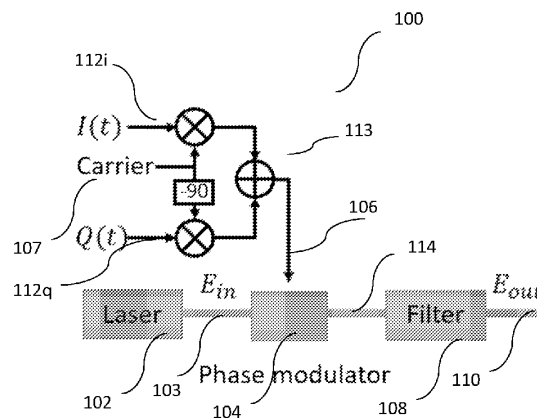


FIG. 1A

(57) Abstract: A method of encoding quantum information on one or several degrees of freedom of coherent states of photons of a baseband input optical signal, a quantum transmitter, and a computer-readable medium. The quantum transmitter comprises a modulator configured to encode quantum information on one or several degrees of freedom of coherent states of photons of a baseband input optical signal using sideband modulation of the baseband optical input signal.

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