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(54) Title: RADIO FREQUENCY GENERATOR PROVIDING COMPLEX RF PULSE PATTERN

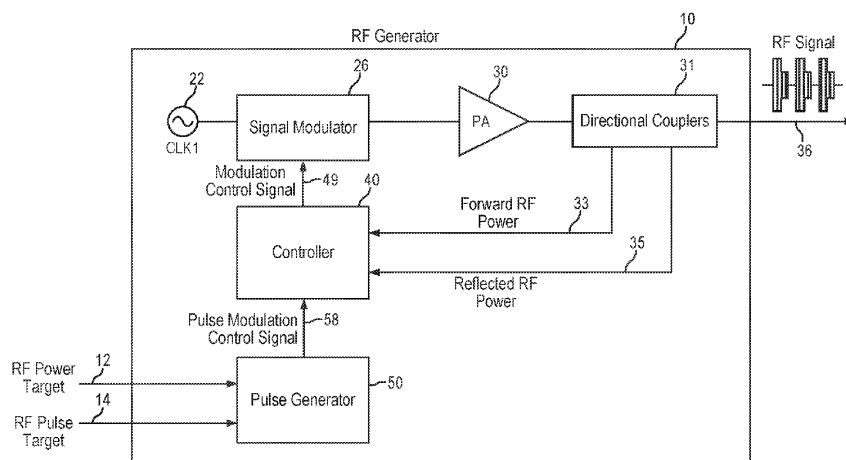


FIG. 2

(57) Abstract: A radio frequency (RF) generator includes a pulse generator circuit configured to receive input signals indicative of a pulse pattern defining an envelope of a pulse RF signal. The pulse generator circuit stores data values defining power levels and durations of segments of the pulse pattern. The pulse generator generates a pulse modulation control signal responsive to the stored data values, the pulse modulation control signal being indicative of the power level and the duration of each segment of the pulse pattern, the pulse modulation control signal being provided to a control circuit to generate a control signal to adjust the amplitude and to modulate the duration or width of the RF signal to generate the pulse RF signal having the pulse pattern.

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