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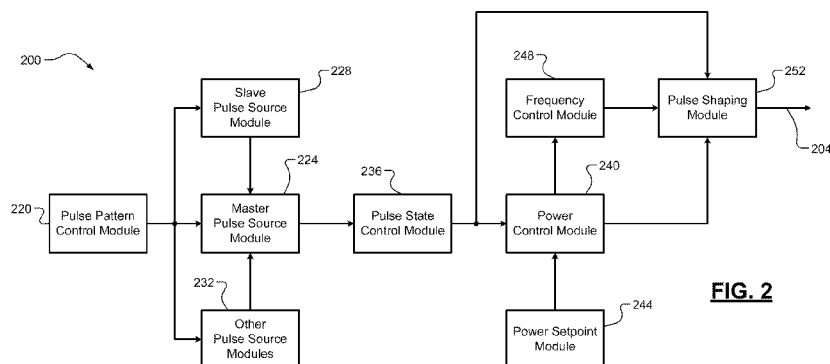
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Declarations under Rule 4.17:

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

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- *with international search report (Art. 21(3))*
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(54) **Title:** RF PULSE EDGE SHAPING**FIG. 2**

(57) **Abstract:** A radio frequency (RF) generation module includes a power control module that receives first and second desired amplitudes of an output of the RF generation module in first and second respective states, and that outputs, based on the first and second desired amplitudes, input power setpoints corresponding to a transition from the first state to the second state. A frequency control module receives the input power setpoints and outputs frequency setpoints corresponding to the input power setpoints. A pulse shaping module receives the input power setpoints, the frequency setpoints, and an indication of when to transition from the first state to the second state, and transitions the output of the RF generation module from the first state to the second state based on the input power setpoints, the frequency setpoints, and the indication.