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(54) Title: DYNAMIC FREQUENCY SCALING OF A SWITCHED MODE POWER SUPPLY

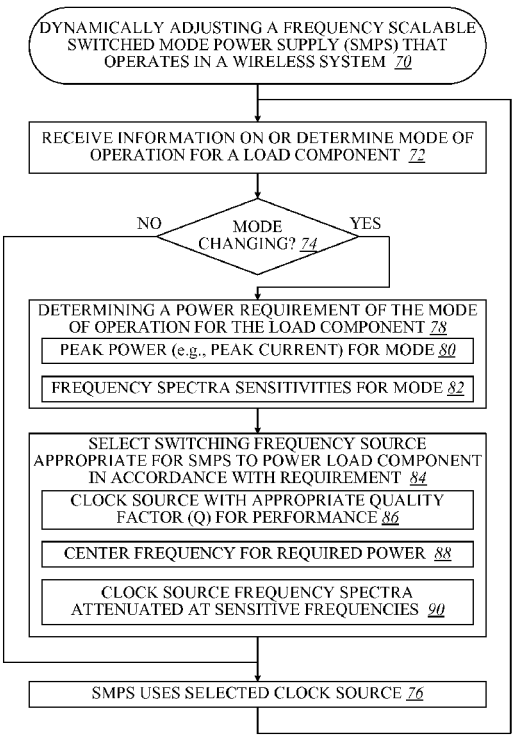


FIG. 2

(57) Abstract: System(s) and method(s) are provided for dynamically scaling switching frequencies and clock sources of switched mode power supplies (SMPSs) in a mobile station. Switching frequency is scaled to an optimal value in response to at least one of (i) a change in mode of operation for wireless communication employed by the mobile station, an additional mode of operation is triggered, (ii) a change in operation conditions of a set of loads associated with functionality of the mobile is determined, or (iii) an LO spur set-off by a SMPS in the presence of an interference signal with a frequency splitting from an operational band that matches the SMPS frequency or at least one of its harmonics. Switching frequencies can be selected from a lookup table, or through an analysis of switching frequencies available to the mobile and operational criteria. A set of clock sources can provide an ensemble of switching frequencies.

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— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

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