

Title (en)

METHODS AND APPARATUSES FOR VOLTAGE REGULATION USING PREDICTIVELY CHARGED PRECHARGE RAILS

Title (de)

VERFAHREN UND VORRICHTUNGEN ZUR SPANNUNGSREGELUNG MIT PRÄDIKTIV GELADENEN VORLADUNGSSCHIENEN

Title (fr)

PROCÉDÉS ET APPAREILS DE RÉGULATION DE TENSION UTILISANT DES RAILS DE PRÉCHARGE CHARGÉS DE MANIÈRE PRÉDICTIVE

Publication

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Application

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Abstract (en)

[origin: WO2021041479A1] A voltage regulator circuit using predictively precharged voltage rails is generally disclosed. For example, the voltage regulator circuit may include a main switching regulator configured to provide a target voltage, the main switching regulator having a first voltage node, a precharge switching regulator configured to provide a precharge voltage, the precharge switching regulator having a second voltage node, the precharge voltage based on a difference between the target voltage and a next target voltage to be provided by the main switching regulator, and a precharge switch circuit configured to selectively couple the second voltage node to an output voltage node based upon a transition from the target voltage to the next target voltage.

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CPC (source: EP)

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