

Title (en)

X-RAY IMAGING WITH FAST KVP-SWITCHING

Title (de)

RÖNTGENBILDGEBUNG MIT SCHNELLER KVP-UMSCHALTUNG

Title (fr)

IMAGERIE PAR RAYONS X AVEC COMMUTATION KVP RAPIDE

Publication

EP 4120801 A1 20230118 (EN)

Application

EP 21185350 A 20210713

Priority

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Abstract (en)

The invention relates to X-ray imaging with fast kVp-switching. The invention provides a voltage generator (100) for X-ray imaging with fast kVp-switching between at least a first voltage level and a second voltage level different to the first voltage level. The voltage generator (100) comprises a voltage input (110), a voltage output (120), a voltage multiplier circuit (130), connected to the voltage input (130) and to the voltage output (120), and comprising a network of a push-pull capacitance (131) and at least one diode (132), and configured to provide, in response to a input voltage received via the voltage input (110), at least the first voltage level and the second voltage level at the voltage output (140) in an alternating manner, and a buffer capacitance (140) arranged with respect to the voltage output (120). Thereby, a ratio of push-pull capacitance to buffer capacitance is between 0.5 and 3.

IPC 8 full level

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CPC (source: EP)

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[X] US 2017245356 A1 20170824 - ZYWICKI JANUSZ [GB], et al

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