

Title (en)

STEP-UP OR STEP-DOWN CONVERTER COMPRISING A BYPASS CAPACITOR

Title (de)

HOCH- ODER TIEFSETZSTELLER MIT ENTLASTUNGSKONDENSATOR

Title (fr)

CONVERTISSEUR ÉLEVATEUR OU ABAISSEUR À CONDENSATEUR DE DÉCHARGE

Publication

**EP 2992598 A1 20160309 (DE)**

Application

**EP 14721388 A 20140505**

Priority

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- EP 2014059103 W 20140505

Abstract (en)

[origin: WO2014177717A1] The invention relates to a converter, in particular a step-up (1) or a step-down converter, said converter comprising a converter inductor (2), a converter diode (3), a converter switch (4), and a bypass circuit (12) connected in parallel to the converter switch (4), in which bypass circuit a bypass capacitor (15) and a diode (14) are connected in series. Said converter also comprises a discharge circuit (17) for the bypass capacitor (15). The forward direction of the diode (14) in the bypass circuit (12) is the same as a conventional direction of current flow through the converter switch (4). The discharge circuit (17) comprises an inductor (20) that is magnetically coupled to the converter inductor (2).

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2014177717A1

Citation (examination)

JP 2008099421 A 20080424 - HONDA MOTOR CO LTD

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