

Title (en)
CIRCUIT ASSEMBLY FOR CONNECTING TO A CURRENT SOURCE

Title (de)
SCHALTUNGSANORDNUNG ZUM ANSCHLUSS AN EINE STROMQUELLE

Title (fr)
ENSEMBLE CIRCUIT DE CONNEXION À UNE SOURCE DE COURANT

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Application
EP 20811590 A 20201120

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• DE 102019134598 A 20191216
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Abstract (en)
[origin: WO2021121865A1] The invention relates to a circuit assembly for connecting to a current source, preferably a 4-20 mA current loop or a high-ohmic voltage source, preferably a voltage source which has an internal resistance of more than 100 ohm, having: - at least one step-up converter with a coil (L1), a diode (D2), in particular a flyback diode, which is serially connected to the coil (L1), an output-side storage capacitor (C4) for adding an output voltage, and a switch element (V1) for switching the coil (L1) against ground; and - a circuit part for dynamically actuating the switch element of the step-up converter, wherein the circuit part is at least designed to actuate the circuit element of the step-up converter in a start-up phase such that the current source directly charges the storage capacitor via the coil (L1) until a specifiable reference value is reached.

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