

Title (en)

A CELL COMPRISING A CROWBAR BRANCH WITH A RESISTIVE ELEMENT

Title (de)

ZELLE MIT EINEM ÜBERSpannungSZWEIG MIT EINEM WIDERSTANDSELEMENT

Title (fr)

CELLULE COMPRENANT UNE BRANCHE DE LIMITATION DOTÉE D'UN ÉLÉMENT RÉSISTIF

Publication

EP 4165764 A1 20230419 (EN)

Application

EP 20732877 A 20200612

Priority

EP 2020066368 W 20200612

Abstract (en)

[origin: WO2021249657A1] A cell (12) for a voltage source converter comprises a first cell connection terminal (CC1), a second cell connection terminal (CC2), a first series connection of two switches (T1, T2) the midpoint of which forms the first cell connection terminal (CC1), an energy storage branch (ESB) comprising a capacitor (Cc) and a crowbar branch connected in parallel with the energy storage branch (ESB), the crowbar branch comprising a first switching element (SCB1) adapted to be activated to short-circuit the capacitor (Cc) of the energy storage branch (ESB) based on the detection of a short-circuit fault and a resistive element (RD) connected in series with the first switching element and set to improve damping in the crowbar branch.

IPC 8 full level

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CPC (source: EP)

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