

Title (en)

ARRANGEMENT AND METHOD FOR ACTUATING A MODULAR MULTILEVEL CONVERTER

Title (de)

ANORDNUNG UND VERFAHREN ZUM ANSTEUERN EINES MODULAREN MULTILEVELSTROMRICHTERS

Title (fr)

AGENCEMENT ET PROCÉDÉ D'ACTIONNEMENT D'UN CONVERTISSEUR MODULAIRE MULTINIVEAU

Publication

**EP 4352869 A1 20240417 (DE)**

Application

**EP 21769070 A 20210819**

Priority

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Abstract (en)

[origin: WO2023020696A1] The invention relates to a method for actuating a modular multilevel converter (1) having at least one electrical series connection (35) of modules (1\_1, 1\_2, 1\_3, 1\_4 ... 1\_n), each module having at least two electronic switching elements (202, 206) and an electrical energy store (210). Desired voltage values (uC1\*) for the series connection (35) are determined by means of a controller (410). Switching signals (S) for the switching elements (202, 206) of the modules of the series connection (35) are determined by means of a switching element control (413) based on the desired voltage values (uC1\*). The controller (410) and the switching element control (413) are carried out by a programmable single-chip processor system (417).

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