

Title (en)

APPARATUS FOR CONVERTING AN ELECTRICAL DC VOLTAGE INTO AN AC VOLTAGE

Title (de)

VORRICHTUNG ZUM UMWANDELN EINER ELEKTRISCHEN GLEICHSPANNUNG IN EINE WECHSELSPANNUNG

Title (fr)

DISPOSITIF POUR CONVERTIR UNE TENSION CONTINUE ÉLECTRIQUE EN UNE TENSION ALTERNATIVE

Publication

EP 3788712 A1 20210310 (DE)

Application

EP 18734102 A 20180607

Priority

EP 2018065041 W 20180607

Abstract (en)

[origin: WO2019233585A1] Apparatus for converting an electrical DC voltage into an AC voltage. In order to provide an apparatus (15) for generating an AC voltage, having a first winding (16) which has winding segments (4, 5, 6) electrically insulated from one another, a second winding (17) which is inductively coupled to the first winding (16) via a magnetizable core (14), and two-pole submodules (7, 8, 9) which are connected in series with one another, wherein each submodule (7, 8, 9) forms, with one winding segment (4, 5, 6) in each case and power semiconductor switches (10), a bridge circuit which can be connected to a DC voltage connection, it is proposed that the first winding (16) is completely subdivided into winding segments (4, 5, 6) which are insulated from one another, wherein each winding element (4, 5, 6) is part of a two-pole submodule (7, 8, 9) and forms a bridge circuit with the power semiconductor switches (10).

IPC 8 full level

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