

Title (en)

ASSEMBLING METHOD AND APPARATUS TO ASSEMBLE A POWER STORAGE DEVICE USING IMPULSIVE WELDING ACTION

Title (de)

MONTAGEVERFAHREN UND VORRICHTUNG ZUM ZUSAMMENBAU EINER ENERGIESPEICHERVORRICHTUNG MITTELS IMPULSARTIGER SCHWEISSAKTION

Title (fr)

PROCÉDÉ ET APPAREIL D'ASSEMBLAGE POUR ASSEMBLER UN DISPOSITIF DE STOCKAGE D'ÉNERGIE À L'AIDE D'UNE ACTION DE SOUDAGE À IMPULSIONS

Publication

EP 4252309 A1 20231004 (EN)

Application

EP 21834882 A 20211126

Priority

- IT 202000028637 A 20201126
- IT 202000028652 A 20201126
- IB 2021061021 W 20211126

Abstract (en)

[origin: WO2022113023A1] The present application relates to a method of assembling a power storage device, comprising a feeding step, a placement step, a joining step, during which at least one terminal tab (B) of said power storage unit (A') is joined to at least one further metal layer (B, T), wherein the joining step entails an application sub-step, during which an impulsive welding action is applied in an overlapping zone, where said terminal tab (B) and said further metal element (B, T) overlap, by means of at least one welding tip, which can be operated following the application of an impulsive force. The present application relates also to a corresponding assembling apparatus.

IPC 8 full level

H01M 50/516 (2021.01); **B21D 39/03** (2006.01); **B23K 20/06** (2006.01); **B23K 20/22** (2006.01); **B23K 101/36** (2006.01)

CPC (source: EP)

B23K 20/002 (2013.01); **B23K 20/02** (2013.01); **B23K 20/06** (2013.01); **B23K 20/22** (2013.01); **H01M 10/0404** (2013.01); **H01M 10/0525** (2013.01); **H01M 10/0585** (2013.01); **H01M 50/516** (2021.01); **H01M 50/55** (2021.01); **B23K 2101/36** (2018.07); **B23K 2101/38** (2018.07); **B23K 2103/10** (2018.07); **B23K 2103/12** (2018.07)

Citation (search report)

See references of WO 2022113023A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

WO 2022113023 A1 20220602; EP 4252309 A1 20231004

DOCDB simple family (application)

IB 2021061021 W 20211126; EP 21834882 A 20211126