

Title (en)

METHOD AND SYSTEM FOR CUTTING ELECTRODES AND SEPARATORS

Title (de)

VERFAHREN UND SYSTEM ZUM SCHNEIDEN VON ELEKTRODEN UND SEPARATOREN

Title (fr)

PROCÉDÉ ET SYSTÈME POUR DÉCOUPER DES ELECTRODES ET DES SEPARATEURS

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Application

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Abstract (en)

[origin: WO2013050088A1] The invention relates to a method for cutting sheet-shaped or plate-shaped objects (1) having thermoplastic synthetic fibres as substrate material, in particular electrodes and/or separators for the construction of an electrochemical energy accumulator or parts of such electrodes or separators, said method including the steps of: (S1) guiding the objects (1) to be cut towards a laser cutting device (2), and (S2) cutting the objects (1) with the laser cutting device (2) in such a way that a fusion of at least some of the thermoplastic synthetic fibres is carried out on the cut edges (3). The invention further relates to a system (10) for cutting sheet-shaped or plate-shaped objects (1) having thermoplastic synthetic fibres as substrate material, in particular for cutting electrodes and/or separators for the construction of an electrochemical energy accumulator or parts of such electrodes or separators, wherein the cutting system (10) includes a transport device (5), which is configured for guiding the objects (1) to be cut towards a laser cutting device (2), and a laser cutting device (2) which is configured for cutting the objects (1) such that a fusion of at least some of the thermoplastic synthetic fibres is performed on the cut edges (3).

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