

Title (en)

SETTING UNIT FOR A PUNCH RIVET DEVICE, PUNCH RIVET DEVICE AND METHOD FOR MANUFACTURING THE SAME

Title (de)

SETZEINHEIT FÜR EINE STANZNIETVORRICHTUNG, STANZNIETVORRICHTUNG UND VERFAHREN ZUM HERSTELLEN EINER SOLCHEN

Title (fr)

UNITÉ DE FRAPPE POUR UN DISPOSITIF DE POINÇONNAGE, DISPOSITIF DE POINÇONNAGE ET PROCÉDÉ DE FABRICATION D'UN TEL DISPOSITIF DE POINÇONNAGE

Publication

EP 3505270 B1 20210217 (DE)

Application

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Priority

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Abstract (en)

[origin: CN109986017A] The present invention relates to a vibration system and a punch rivet device. The punch rivet device is used for connecting at least two components by means of rivets. The components and the rivets are arranged between a punch and a bracket. Force can be applied to the punch along the joining direction by means of a driver so as to press the rivets into the components. The vibration system can be connected to a vibration generator, has a vibration converter, a booster and an ultrasonic wave generator and is used for generating vibration. The ultrasonic wave generator includes the punch. Through the vibration system, the rivets are in vibration when being pressed into the components. The vibration converter is provided with a connector through which the vibration system and the vibration generator can be connected. The connector departs from an end of the vibration converter laterally relative to the joining direction; and/or the vibration system is provided with a clamping ring, so that the force can be applied onto the punch by the driver through an end, of the clamping ring, arranged along the joining direction; and/or the booster and the ultrasonic wave generator together constitute a component.

IPC 8 full level

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