

Title (en)

HOLDING DEVICE FOR HOLDING A SOFT-MAGNETIC STACKED CORE OF A TRANSFORMER AND TRANSFORMER

Title (de)

HALTEVORRICHTUNG ZUM HALTEN EINES WEICHMAGNETISCHEN TRANSFORMATORENSTAPELKERNS SOWIE TRANSFORMATOR

Title (fr)

DISPOSITIF DE RETENUE UN NOYAU COMPACT MAGNÉTIQUE DOUX DE TRANSFORMATEUR ET TRANSFORMATEUR

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2019122067A1] The invention relates to a retaining device (5) for retaining a soft-magnetic stacked transformer core (2) having layers with an amorphous and/or nanocrystalline microstructure made of an iron alloy, wherein the stacked transformer core (2) has two coil limbs (3) running parallel to one another and two yokes (4) connected to mutually opposite ends of the coil limbs (3). The retaining device (5) has two retaining units (6, 7), which can each be arranged on one of the two yokes (4) such that the retaining units (6, 7) are arranged at mutually opposite end regions of the stacked transformer core (2), and also has at least one mechanical fixing means (8), which acts on the two retaining units (6, 7) and via which the two retaining units (6, 7) are connected to one another such that they can be released in a non-destructive manner. In order to provide a more energy-efficient transformer (1), the retaining device (5) has at least one spacer (9), which is clamped in between the retaining units (6, 7), and at least one spring element, which can be arranged between at least one retaining unit (6, 7) and the stacked transformer core (2), wherein the retaining device (5) is designed such that, when the stacked transformer core (2) is arranged on the retaining device (5), the spring element is in a state in which it has been elastically deformed by the resulting, at least indirect contact with the stacked transformer core (2).

IPC 8 full level

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