

Title (en)

METHOD FOR PRODUCING AN ELECTROMAGNET, PREFERABLY FOR A STATOR OF AN ELECTRIC MOTOR, AND ELECTROMAGNET

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES ELEKTROMAGNETEN, VORZUGSWEISE FÜR EINEN STATOR EINES ELEKTROMOTORS, UND ELEKTROMAGNET

Title (fr)

PROCÉDÉ DE FABRICATION D'UN ÉLECTRO-AIMANT, DE PRÉFÉRENCE POUR UN STATOR D'UN MOTEUR ÉLECTRIQUE, ET ÉLECTRO-AIMANT

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Abstract (en)

[origin: WO2022228605A1] The invention relates to a method for producing an electromagnet, preferably for a stator of an electric motor, in which laminated cores (7) comprising sheet-metal elements (12) are stamped out of a plurality of metal sheets (6, 9, 10, n) lying one on top of the other and are shaped as teeth, wherein the sheet-metal elements (12) of the laminated cores (7) are pressed together and subsequently each laminated core (7) is surrounded by a coil winding (3) in order to produce a magnetic pole, wherein laminated cores (7) that are located next to one another are wound with the coil winding (3) in opposite directions and the wound laminated cores (7) are joined to form the electromagnet (1). In a method in which the assembly complexity of the electromagnet is simplified, while the sheet-metal elements (12) of the laminated cores (7) are stamped out of the metal sheets (6, 9, 10, n) lying one on top of the other, continuous connections (13, 17) between the sheet-metal elements (12) of all the laminated cores (7) located in at least an identical position remain, the connections being used as assembly aids when the electromagnet (1) is constructed, wherein the connections (13, 17) are interrupted during or after the construction of the electromagnet (1).

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