Publication

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Abstract (en)
[origin: WO2019040960A1] The invention relates to a method and a device for automatically producing a semi-finished stator (1) of an electric machine. A substantially hollow cylindrical laminated core (2) is provided with a plurality of stacked sheet-metal laminates (2') which define a main axis (6). At least one of the longitudinal ends $(11,12 ; 13,14)$ of rod-shaped conductor elements $(3,4)$ for producing an electric winding protrude relative to the first and/or second end faces $(7,8)$ of the laminated core $(2)$ such that the conductor elements form lines $(15,16 ; 17,18)$ that protrude from the laminated core (2) at at least one of the end faces $(7,8)$ of the laminated core $(2)$. The protruding lines $(15,16 ; 17,18)$ of the conductor elements $(3,4)$ are bent in the direction of the circular circumferential direction of the hollow cylindrical laminated core ( 2 ) by means of at least one bending tool ( 25,25 '; $26,26^{\prime}$ ) mounted so as to be rotatable about a rotational axis (27). Additionally, the longitudinal ends $(11,12,13,14)$ of the conductor elements $(3,4)$ are brought into a specified radial target position with respect to the laminated core (2) by means of calibrating forces which act radially in the direction of the rotational axis (27) and which are exerted by at least one calibrating device $(28,29)$ with calibrating fingers $(30,31)$ that can be adjusted in a controlled manner and are oriented radially towards the rotational axis $(27)$ of the at least one bending tool ( 25 , 25', 26, 26').

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