

Title (en)  
STATOR, ELECTRIC MOTOR AND METHOD FOR PRODUCING A STATOR

Title (de)  
STATOR, ELEKTROMOTOR SOWIE VERFAHREN ZUR HERSTELLUNG EINES STATORS

Title (fr)  
STATOR, MOTEUR ÉLECTRIQUE ET PROCÉDÉ DE PRODUCTION D'UN STATOR

Publication  
**EP 4298716 A1 20240103 (DE)**

Application  
**EP 21708644 A 20210226**

Priority  
EP 2021054897 W 20210226

Abstract (en)  
[origin: WO2022179706A1] A stator (4) for a multiphase electric machine (2), comprising a core element (10) that comprises stator slots (12) for receiving at least two winding arrangements (14, 16, 18) which each comprise at least two conductor arrangements (20, 22; 24, 26; 28, 30) running in parallel and each form a phase in such a way that what is known as a distributed winding is present, wherein each conductor arrangement (20, 22; 24, 26; 28, 30) of a winding arrangement (14, 16, 18) comprises at least two successive jumps in the circumferential direction, wherein the respective jump width SLW of the respective conductor arrangement (20, 22; 24, 26; 28, 30) at each partial end winding (40, 42, 44) is newly defined with  $n=1$  according to the formula  $SLW=(m-1)q + 1 + 2(n-1)$  beginning with the respectively inner conductor arrangement (20, 22; 24, 26; 28, 30), wherein  $m$  is the number of phases and wherein  $q$  is the number of conductor arrangements (20, 22; 24, 26; 28, 30) associated with a winding arrangement (14, 16, 18) and  $n$  is alternately 1 to  $q$ , as seen in the circumferential direction. The invention also relates to an electric motor (2) and to a method for producing a stator (4).

IPC 8 full level  
**H02K 3/12** (2006.01); **H02K 15/04** (2006.01)

CPC (source: EP)  
**H02K 3/12** (2013.01); **H02K 15/0478** (2013.01)

Citation (search report)  
See references of WO 2022179706A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**WO 2022179706 A1 20220901**; EP 4298716 A1 20240103

DOCDB simple family (application)  
**EP 2021054897 W 20210226**; EP 21708644 A 20210226