

Title (en)  
STATOR DEVICE FOR AN ELECTRIC MACHINE, AND ELECTRIC MACHINE

Title (de)  
STATORVORRICHTUNG FÜR EINE ELEKTRISCHE MASCHINE UND ELEKTRISCHE MASCHINE

Title (fr)  
STATOR POUR UNE MACHINE ÉLECTRIQUE ET MACHINE ÉLECTRIQUE

Publication  
**EP 4005063 A1 20220601 (DE)**

Application  
**EP 20746953 A 20200727**

Priority  
• DE 102019120677 A 20190731  
• EP 2020071124 W 20200727

Abstract (en)  
[origin: WO2021018831A1] The invention relates to a stator device (2) for an electric machine (1), comprising - a stator body (3), - a plurality of cooling channels (9a-9x) that are designed to cool the stator body (3) and extend along the stator body (3) in an axial direction, and - a cooling fluid connection device (7) that delimits a connection channel (12) axially outwards and in a radial manner, said connection channel extending in the circumferential direction, wherein the axial end of each cooling channel opens into the connection channel, and the connection channel extends radially inwards further than the cooling channels (9a-9x).

IPC 8 full level  
**H02K 1/20** (2006.01); **H02K 5/20** (2006.01); **H02K 9/19** (2006.01)

CPC (source: CN EP US)  
**H02K 1/20** (2013.01 - CN EP US); **H02K 3/48** (2013.01 - CN); **H02K 3/50** (2013.01 - CN); **H02K 5/203** (2021.01 - CN US); **H02K 5/20** (2013.01 - EP US); **H02K 2213/03** (2013.01 - CN EP US)

Citation (search report)  
See references of WO 2021018831A1

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

DOCDB simple family (publication)  
**WO 2021018831 A1 20210204**; CN 114175457 A 20220311; DE 102019120677 A1 20210204; EP 4005063 A1 20220601; US 2022271580 A1 20220825

DOCDB simple family (application)  
**EP 2020071124 W 20200727**; CN 202080054592 A 20200727; DE 102019120677 A 20190731; EP 20746953 A 20200727; US 202017630307 A 20200727