

Title (en)  
INSULATING UNIT FOR AN ELECTRICAL MACHINE

Title (de)  
ISOLIEREINHEIT FÜR EINE ELEKTRISCHE MASCHINE

Title (fr)  
UNITÉ D'ISOLATION CONÇUE POUR UN MOTEUR ÉLECTRIQUE

Publication  
**EP 3857680 A1 20210804 (DE)**

Application  
**EP 19779819 A 20190925**

Priority

- DE 102018216462 A 20180926
- DE 102019207665 A 20190524
- EP 2019075923 W 20190925

Abstract (en)  
[origin: WO2020064869A1] The present invention relates to an insulating unit (1) for an electrical machine with a hairpin winding, wherein the hairpin winding has a plurality of connection pins (6) for electrical connection to an interconnection (8) and also a large number of welded hairpin ends (7) which form pairs of contacts, wherein the insulating unit (1) has a main body (2) which contains an insulating material and extends at least over a portion of the circumference of the hairpin winding, characterized in that the main body (2) has continuous openings (3) which extend in the axial direction, and in that each opening (3) is associated with one hairpin end (7) or one connection pin (6). The invention further relates to an electrical machine comprising an insulating unit (1) of this kind and to a method for producing an electrical machine of this kind.

IPC 8 full level  
**H02K 3/50** (2006.01); **H02K 15/12** (2006.01)

CPC (source: EP KR US)  
**H02K 3/28** (2013.01 - US); **H02K 3/38** (2013.01 - EP KR US); **H02K 3/50** (2013.01 - EP KR US); **H02K 11/25** (2016.01 - EP KR US); **H02K 15/12** (2013.01 - EP KR); **H02K 2203/09** (2013.01 - EP KR US)

Citation (search report)  
See references of WO 2020064869A1

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)  
**DE 102019207666 A1 20200326**; CN 112753154 A 20210504; DE 102019207665 A1 20200326; EP 3857680 A1 20210804; KR 20210065089 A 20210603; US 2021344245 A1 20211104; WO 2020064869 A1 20200402; WO 2020239545 A1 20201203

DOCDB simple family (application)  
**DE 102019207666 A 20190524**; CN 201980062608 A 20190925; DE 102019207665 A 20190524; EP 19779819 A 20190925; EP 2019075923 W 20190925; EP 2020063982 W 20200519; KR 20217004761 A 20190925; US 201917280285 A 20190925