

Title (en)
METHOD FOR PRODUCING COMPRESSED STRAND, METHOD FOR PRODUCING AN ELECTRIC MOTOR, AND USE OF COMPRESSED STRAND

Title (de)
VERFAHREN ZUR HERSTELLUNG VON FORMLITZE, VERFAHREN ZUR HERSTELLUNG EINES ELEKTROMOTORS, SOWIE VERWENDUNG VON FORMLITZE

Title (fr)
PROCÉDÉ POUR LA FABRICATION D'UN TORON PROFILÉ, PROCÉDÉ POUR LA FABRICATION D'UN MOTEUR ÉLECTRIQUE AINSI QU'UTILISATION D'UN TORON PROFILÉ

Publication
EP 3804104 A1 20210414 (DE)

Application
EP 19726616 A 20190521

Priority
• DE 102018208407 A 20180528
• EP 2019063037 W 20190521

Abstract (en)
[origin: WO2019228846A1] The invention relates to a method for producing a compressed strand (F) made of an insulated wire (1) which is supplied in a straight manner or in a substantially straight manner. The method is characterized by the following steps: a) reshaping the insulated wire (1) into at least one half-loop, ring, or coil using a reshaping device (2); b) twisting the at least one half-loop, ring, or coil into a wire packet (D) using a twisting device (4); and c) compacting the wire packet (D) using a compacting device (5). The invention also relates to - a method for producing an electric motor, wherein the production of at least one part of the compressed strand for the electric motor is carried out using the method according to the invention, and - to the use of the compressed strand in the stator (S) of an electric motor, at least some parts of said compressed strand being the compressed strand produced according to the invention.

IPC 8 full level
H02K 15/04 (2006.01)

CPC (source: EP US)
H02K 3/14 (2013.01 - EP); **H02K 15/0414** (2013.01 - EP); **H02K 15/0428** (2013.01 - US)

Citation (search report)
• [X] GB 1003991 A 19650908 - LARBORDE & KUPFER SA
• [X] US 3837072 A 19740924 - MOBERG LENNART
• [X] US 2007180681 A1 20070809 - KATO MITSURU [JP], et al
• [I] DE 3219222 A1 19821223 - FUJI ELECTRIC CO LTD [JP]
• [A] DE 10037239 A1 20010208 - DENSO CORP [JP]
• [A] JP 2001078403 A 20010323 - DENSO CORP
• [A] US 4337567 A 19820706 - LUGOSI ROBERT, et al
• [A] US 2016343475 A1 20161124 - HIRAO YASUYUKI [JP], et al
• [A] US 2016156236 A1 20160602 - METZ DIETMAR [DE]
• See also references of WO 2019228846A1

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 102018208407 A1 20191128; CN 112640273 A 20210409; EP 3804104 A1 20210414; US 2021234443 A1 20210729; WO 2019228846 A1 20191205

DOCDB simple family (application)
DE 102018208407 A 20180528; CN 201980048418 A 20190521; EP 19726616 A 20190521; EP 2019063037 W 20190521; US 201917059338 A 20190521