

Title (en)
METHOD AND CONDUCTOR STRUCTURE FOR MANUFACTURING AN ELECTRIC WINDING OF AN ELECTROMAGNETIC INDUCTION APPARATUS

Title (de)
VERFAHREN UND LEITERSTRUKTUR ZUR HERSTELLUNG EINER ELEKTRISCHEN WICKLUNG EINER ELEKTROMAGNETISCHEN INDUKTIONSVORRICHTUNG

Title (fr)
PROCÉDÉ ET STRUCTURE DE CONDUCTEUR POUR FABRIQUER UN ENROULEMENT ÉLECTRIQUE D'UN APPAREIL À INDUCTION ÉLECTROMAGNÉTIQUE

Publication
EP 3839987 A1 20210623 (EN)

Application
EP 19217544 A 20191218

Priority
EP 19217544 A 20191218

Abstract (en)
A method for manufacturing an electric winding (100) of an electromagnetic induction apparatus, comprising the following steps:- providing a conductor structure (1) including a conductor element (2) extending longitudinally along a main extension direction (L) and a plurality of spacer elements (3A, 3B) made of electrically insulating material, said spacer elements being fixed to at least a lateral surface (2A, 2B) of said conductor element and being arranged spaced one from another along said lateral surface (2A, 2B);- forming an electric winding (100) by means of said conductor structure, said electric winding extending axially along a winding direction (DW) and having a plurality of turns (101) arranged around said winding direction. Each turn (101) of said electric winding (100) is formed by a corresponding longitudinal portion (2E, 2F) of said conductor element (2). Said spacer elements (3A, 3B) are interposed between adjacent turns of said electric winding (100) at opposite sides (101A, 101B) of said turns (101). For at least a turn (101) of said electric winding, each spacer element (3A, 3B) at one side (101A) of said turn is partially overlapped with two spacer elements (3A, 3B) at the opposite side (101B) of said turn.

IPC 8 full level
H01F 5/06 (2006.01); **H01F 27/28** (2006.01); **H01F 27/32** (2006.01); **H01F 41/12** (2006.01)

CPC (source: EP)
H01F 5/06 (2013.01); **H01F 27/2823** (2013.01); **H01F 27/322** (2013.01); **H01F 27/323** (2013.01); **H01F 41/122** (2013.01); **H01F 2027/2838** (2013.01)

Citation (search report)

- [A] JP 2002110434 A 20020412 - FUJI ELECTRIC CO LTD
- [A] WO 9523420 A1 19950831 - ASTA ELEKTRODRAHT GMBH [AT], et al
- [A] DE 2401237 A1 19750703 - BBC BROWN BOVERI & CIE
- [A] WO 2019219226 A1 20191121 - ABB SCHWEIZ AG [CH]

Cited by
EP3859760B1

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)
EP 3839987 A1 20210623; EP 3839987 B1 20240417

DOCDB simple family (application)
EP 19217544 A 20191218