Title (en)

ELECTRICAL COMPONENT, IN PARTICULAR ELECTRICAL COIL, COMPRISING A PLURALITY OF WINDINGS OF A WIRE

Title (de)

ELEKTRISCHES BAUTEIL, INSBESONDERE ELEKTRISCHE SPULE, UMFASSEND MEHRERE WINDUNGEN EINES DRAHTES

Title (fr)

COMPOSANT ÉLECTRIQUE, EN PARTICULIER BOBINE ÉLECTRIQUE, COMPRENANT PLUSIEURS SPIRES D'UN FIL

Publication

EP 4285394 A1 20231206 (DE)

Application

EP 22708758 A 20220127

Priority

- DE 102021102141 A 20210129
- EP 2022051931 W 20220127

Abstract (en)

[origin: WO2022162081A1] Electrical component (1), in particular an electrical coil, comprising a plurality of windings of a wire (2) which are wound on a main body (4) (coil main body) that defines an axis (3), in particular a coil axis, wherein the windings are arranged in a plurality of winding layers which are at different spacings from the axis (3) (coil axis), wherein - at least one outer, in particular outermost, winding layer is wound directly on an inner winding layer that faces the axis (3) of the main body (4), and - a first winding (5, 100) which is wound on the main body (4), and in particular makes direct contact with the main body (4), and the last winding (5, 101) which is wound on the main body (4) are arranged on the same side (A, B) of the main body (4).

IPC 8 full level

H01F 5/02 (2006.01); **H01F 41/086** (2016.01); **H02K 3/18** (2006.01); **H02K 3/52** (2006.01); **H02K 15/04** (2006.01)

CPC (source: EP US)

H01F 5/02 (2013.01 - EP); **H01F 27/006** (2013.01 - US); **H01F 27/2823** (2013.01 - US); **H01F 27/306** (2013.01 - US); **H01F 41/086** (2016.01 - EP); **H02K 3/18** (2013.01 - EP); **H02K 15/095** (2013.01 - EP); H02K 2203/12 (2013.01 - EP)

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)

DE 102021102141 A1 20220804; CN 117203722 A 20231208; EP 4285394 A1 20231206; US 2024087789 A1 20240314; WO 2022162081 A1 20220804

DOCDB simple family (application)

DE 102021102141 A 20210129; CN 202280022078 A 20220127; EP 2022051931 W 20220127; EP 22708758 A 20220127; US 202218263223 A 20220127