

Title (en)
ELECTRICAL CONDUCTORS FOR POWER TRANSFORMERS WITH HIGH ELECTRICAL AND THERMAL CONDUCTIVITY

Title (de)
ELEKTRISCHE LEITER FÜR LEISTUNGSTRANSFORMATOREN MIT HOHER ELEKTRISCHER UND THERMISCHER LEITFÄHIGKEIT

Title (fr)
CONDUCTEURS ÉLECTRIQUES POUR TRANSFORMATEURS DE PUISSANCE À HAUTE CONDUCTIVITÉ ÉLECTRIQUE ET THERMIQUE

Publication
EP 4179554 A1 20230517 (EN)

Application
EP 21743453 A 20210712

Priority
• IT 202000016903 A 20200713
• EP 2021069298 W 20210712

Abstract (en)
[origin: WO2022013138A1] A process for manufacturing electrical conductors for power transformers with high electrical and thermal conductivity, enhanced through the deposition of copper and graphene, is herein described. In particular is described an industrial process for the production of conductors in copper and/or aluminium having a rectangular section (strips) coated with graphene, in order to increase thermal and electrical conductivity of said conductors, which are then used in all the windings for power transformers.

IPC 8 full level
B21C 1/00 (2006.01); **C23C 28/00** (2006.01); **H01B 1/04** (2006.01); **H01F 27/28** (2006.01); **H01F 41/04** (2006.01)

CPC (source: EP)
C23C 28/00 (2013.01); **C23C 28/30** (2013.01); **C23C 28/32** (2013.01); **C23C 28/321** (2013.01); **C23C 28/322** (2013.01); **C23C 28/34** (2013.01); **H01F 27/2847** (2013.01); **H01F 41/04** (2013.01); **B21C 37/02** (2013.01)

Citation (search report)
See references of WO 2022013138A1

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)
WO 2022013138 A1 20220120; EP 4179554 A1 20230517; IT 202000016903 A1 20220113

DOCDB simple family (application)
EP 2021069298 W 20210712; EP 21743453 A 20210712; IT 202000016903 A 20200713