

Title (en)

ELECTRIC WIRES AND CABLES FOR SPACE APPLICATIONS

Title (de)

ELEKTRISCHE DRÄHTE UND KABEL FÜR RAUMANWENDUNGEN

Title (fr)

FILS ET CABLES ELECTRIQUES POUR APPLICATIONS SPATIALES

Publication

**EP 4323565 A1 20240221 (FR)**

Application

**EP 22722293 A 20220411**

Priority

- FR 2103805 A 20210413
- FR 2022050678 W 20220411

Abstract (en)

[origin: WO202219276A1] The invention relates to a process for manufacturing a silver-plated copper or copper alloy blank wire having a silver layer thickness of 1.5 µm to 15 µm, the manufacturing process comprising the step of electrolytically depositing silver on the copper or copper alloy blank wire, said electrolytic deposition being performed at a pulsating current with reversal in a silver-plating bath under particular electrolytic conditions. The invention further relates to the silver-plated copper or copper alloy blank wire obtainable by said process, a process for manufacturing a silver-plated copper or copper alloy strand, the strand obtainable by said process, a silver-plated conductor and an electromagnetic shielding layer comprising the silver-plated strand, an electric wire comprising the silver-plated conductor, an electric cable comprising the electric wire, and uses thereof.

IPC 8 full level

**C25D 3/46** (2006.01); **C25D 5/18** (2006.01); **C25D 7/06** (2006.01); **H01B 7/28** (2006.01)

CPC (source: EP)

**C25D 3/46** (2013.01); **C25D 5/18** (2013.01); **C25D 7/0607** (2013.01); **H01B 7/2806** (2013.01)

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)

**FR 3121688 A1 20221014**; **FR 3121688 B1 20230414**; BR 112023020474 A2 20231121; CN 117157432 A 20231201; DE 22722293 T1 20240502; EP 4323565 A1 20240221; JP 2024513982 A 20240327; WO 202219276 A1 20221020

DOCDB simple family (application)

**FR 2103805 A 20210413**; BR 112023020474 A 20220411; CN 202280028155 A 20220411; DE 22722293 T 20220411; EP 22722293 A 20220411; FR 2022050678 W 20220411; JP 2023562799 A 20220411