

Title (en)

METHOD FOR APPLYING A LINING FOR FERROUS AND NON-FERROUS METAL WIRES AND CABLES AND THEIR ALLOYS

Title (de)

VERFAHREN ZUM AUFTRAGEN EINER BESCHICHTUNG FÜR EISEN- UND NICHTEISENHALTIGE METALLDRÄHTE UND KABEL UND IHRE LEGIERUNGEN

Title (fr)

PROCÉDÉ D'APPLICATION D'UN REVÊMENT POUR DES FILS DE MÉTAL FERREUX ET NON FERREUX ET CÂBLES LEURS ALLIAGES

Publication

**EP 3553794 A1 20191016 (EN)**

Application

**EP 19168246 A 20190409**

Priority

- IT 201800004338 A 20180410
- IT 201800004462 A 20180413

Abstract (en)

Disclosed herein is a method using ultraviolet radiation to form a solid polymeric coating on a surface of wires of ferrous and non-ferrous metal and their alloys with homogeneous section of any shape and size and cables formed by stranded wires, characterised in that it comprises the steps of:- application: coating the surface of wires and cables with a compound in liquid state or in the form of powders and solid particles of various size and shape, which is constituted by monomers and/or oligomers and/or polymers, as well as additives and photoinitiators;- curing: exposing the previously applied compound to an amount of ultraviolet radiation, with one or more wavelengths, sufficient to react the photoinitiators and to trigger the cross-linking polymerisation which causes the curing of the compound and therefore forms the polymeric coating and having flexibility, elongation, curing and adherence features such as to ensure high protective capacities. The method applies to protective, decorative or lubricating coatings.

IPC 8 full level

**H01B 19/04** (2006.01)

CPC (source: EP)

**H01B 19/04** (2013.01)

Citation (search report)

- [X] WO 2010112493 A1 20101007 - DSM IP ASSETS BV [NL], et al
- [X] US 2015368496 A1 20151224 - HAWIG YUHSIN [US]
- [X] US 3813322 A 19740528 - VAZIRANI H

Cited by

CN115028986A

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**EP 3553794 A1 20191016; EP 3553794 B1 20231122**; AR 118620 A1 20211020; ES 2971618 T3 20240606; PL 3553794 T3 20240408

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