

Title (en)
ELECTRIC WIRE WITH TERMINAL, METHOD FOR MANUFACTURING THE SAME, AND TERMINAL FOR ELECTRIC WIRE WITH TERMINAL

Title (de)
ELEKTRISCHER DRAHT MIT KLEMME, VERFAHREN ZU SEINER HERSTELLUNG UND KLEMME FÜR ELEKTRISCHEN DRAHT MIT KLEMME

Title (fr)
FIL ÉLECTRIQUE À TERMINAL, SON PROCÉDÉ DE FABRICATION ET TERMINAL POUR FIL ÉLECTRIQUE À TERMINAL

Publication
EP 3687000 A1 20200729 (EN)

Application
EP 20151904 A 20200115

Priority
JP 2019012444 A 20190128

Abstract (en)
An electric wire with terminal¹ is provided with a conductor³ made of an aluminum material, an electric wire², and a terminal⁵ made of an aluminum material which is configured to be connected to the conductor³. The terminal⁵ includes three or more compressed portions along a longitudinal direction of the conductor³. A resistance ratio growth rate (%) obtained by a formula $((R2-R1)/R1) \times 100$ is not more than 19% wherein R1 represents an electric resistance ratio between the conductor³ and the terminal⁵ before performing a test that keeps the electric wire with terminal¹ at 150°C in air for 50 hours, and R2 represents an electric resistance ratio between the conductor³ and the terminal⁵ after performing the test.

IPC 8 full level
H01R 4/20 (2006.01); **H01R 43/048** (2006.01)

CPC (source: CN EP)
H01B 1/02 (2013.01 - CN); **H01B 1/023** (2013.01 - CN); **H01R 4/183** (2013.01 - CN); **H01R 4/188** (2013.01 - CN); **H01R 4/20** (2013.01 - EP); **H01R 4/62** (2013.01 - CN); **H01R 43/04** (2013.01 - CN); **H01R 43/0482** (2013.01 - EP)

Citation (applicant)
JP S6410163 B2 19890221

Citation (search report)

- [XYI] EP 3419118 A1 20181226 - HITACHI METALS LTD [JP]
- [Y] US 9196971 B2 20151124 - GERY ERIC [FR], et al
- [X] US 2587095 A 19520226 - BERGAN MARTIN D

Cited by
EP3940895A1

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 3687000 A1 20200729; **EP 3687000 B1 20230830**; CN 111490362 A 20200804; JP 2020119865 A 20200806; JP 2022075941 A 20220518; JP 7347570 B2 20230920

DOCDB simple family (application)
EP 20151904 A 20200115; CN 202010037583 A 20200114; JP 2019012444 A 20190128; JP 2022048246 A 20220324