

Title (en)

Electrical lead wire with aluminium or aluminium alloy core

Title (de)

Elektrischer Draht mit Aluminium- oder Aluminiumlegierungskern

Title (fr)

Fil électrique à âme en aluminium ou alliage d'aluminium

Publication

**EP 1700933 A1 20060913 (FR)**

Application

**EP 06300107 A 20060203**

Priority

FR 0550399 A 20050210

Abstract (en)

The wire has a core (2) with an outer layer (3) disposed on the core by electrodeposition. The outer layer is made up of a nickel or zinc alloy. The zinc and nickel alloy is a core deposition on the core. The mass ratio of the nickel in the alloy lies between 5 and 15 percent. The thickness of the outer layer lies between 0.1 and 10 micrometer. The outer layer is passivated by chromium, molybdate or phosphate. Independent claims are also included for the following: (1) a single strand electrical conductor formed by a wire (2) a multistrand electrical conductor formed by a set of multiple wires.

IPC 8 full level

**C25D 7/06** (2006.01); **B21F 19/00** (2006.01)

CPC (source: EP US)

**C23C 22/00** (2013.01 - EP US); **C23C 22/07** (2013.01 - EP US); **C23C 22/24** (2013.01 - EP US); **C23C 22/40** (2013.01 - EP US); **C25D 5/48** (2013.01 - EP US); **C25D 7/0607** (2013.01 - EP US); **H01B 1/023** (2013.01 - EP US)

Citation (search report)

- [DX] US 3636242 A 19720118 - HANSSON HANS OLOF
- [X] US 3909209 A 19750930 - KRUPER WAYNE A, et al
- [A] PATENT ABSTRACTS OF JAPAN vol. 2003, no. 12 5 December 2003 (2003-12-05)
- [A] PATENT ABSTRACTS OF JAPAN vol. 2003, no. 12 5 December 2003 (2003-12-05)

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DOCDB simple family (publication)

**FR 2881871 A1 20060811**; **FR 2881871 B1 20070330**; AT E449202 T1 20091215; DE 602006010461 D1 20091231; EP 1700933 A1 20060913; EP 1700933 B1 20091118; ES 2336357 T3 20100412; US 2006283622 A1 20061221; US 7491890 B2 20090217

DOCDB simple family (application)

**FR 0550399 A 20050210**; AT 06300107 T 20060203; DE 602006010461 T 20060203; EP 06300107 A 20060203; ES 06300107 T 20060203; US 35025606 A 20060208