

Title (en)
ALUMINUM ALLOY CONDUCTOR

Title (de)
ALUMINIUMLEGIERUNGSLEITER

Title (fr)
CONDUCTEUR EN ALLIAGE D'ALUMINIUM

Publication
EP 2540850 B1 20171115 (EN)

Application
EP 11747542 A 20110225

Priority
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• JP 2011054399 W 20110225

Abstract (en)
[origin: EP2540850A1] {Problems} To providing an aluminum alloy conductor, which has sufficient electrical conductivity and tensile strength, and which is excellent in resistance to bending fatigue, flexibility, and the like. {Means to solve} An aluminum alloy conductor, containing: 0.4 to 0.9 mass % of Fe, with the balance being Al and inevitable impurities, wherein the conductor contains two kinds of intermetallic compounds A and B, in which the intermetallic compound A has a particle size of 0.1 μm or more but 2 μm or less, and the intermetallic compound B has a particle size of 0.03 μm or more but less than 0.1 μm , and an area ratio a of the intermetallic compound A, and an area ratio b of the intermetallic compound B, in an arbitrary region in the conductor, satisfy: 1% $\leq a \leq 6\%$, and 1% $\leq b \leq 5\%$, respectively.

IPC 8 full level
C22C 21/00 (2006.01); **B21C 1/00** (2006.01); **C22F 1/00** (2006.01); **C22F 1/04** (2006.01); **H01B 1/02** (2006.01); **H01B 5/02** (2006.01)

CPC (source: EP US)
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