

Title (en)  
ALUMINUM ALLOY CONDUCTOR

Title (de)  
ALUMINIUMLEGIERUNGSLEITER

Title (fr)  
CONDUCTEUR EN ALLIAGE D'ALUMINIUM

Publication  
**EP 2540850 A1 20130102 (EN)**

Application  
**EP 11747542 A 20110225**

Priority  
• JP 2010043489 A 20100226  
• JP 2011054399 W 20110225

Abstract (en)  
{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  $\mu\text{m}$  or more but 2  $\mu\text{m}$  or less, and the intermetallic compound B has a particle size of 0.03  $\mu\text{m}$  or more but less than 0.1  $\mu\text{m}$ , 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)

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