

Title (en)  
COLD-ROLLED ALUMINUM ALLOY SHEET FOR BOTTLE CAN WITH EXCELLENT NECK PART FORMABILITY AND PROCESS FOR PRODUCING THE COLD-ROLLED ALUMINUM ALLOY SHEET

Title (de)  
KALTGEWALZTES BLECH AUS ALUMINIUMLEGIERUNG FÜR FLASCHENDOSE MIT HERVORRAGENDER HALSTEILFORMBARKEIT UND VERFAHREN ZUR HERSTELLUNG DES KALTGEWALZTEN BLECHS AUS ALUMINIUMLEGIERUNG

Title (fr)  
TOLE EN ALLIAGE D ALUMINIUM LAMINEE A FROID POUR BOUTEILLE CANETTE AYANT UNE EXCELLENTE CAPACITE DE FORMATION DE COL ET PROCEDE DE PRODUCTION DE LA TOLE EN ALLIAGE D ALUMINIUM LAMINEE A FROID

Publication  
**EP 1944384 A4 20091028 (EN)**

Application  
**EP 06797959 A 20060914**

Priority  
• JP 2006318241 W 20060914  
• JP 2005319864 A 20051102

Abstract (en)  
[origin: EP1944384A1] A cold-rolled aluminum alloy sheet has a composition containing 0.7 to 1.5% by mass Mn, 0.8 to 1.7% by mass Mg, 0.1 to 0.7% by mass Fe, 0.05 to 0.5% by mass Si, 0.1 to 0.6% by mass Cu, and Al and inevitable impurities as other elements. In the structure of the cold-rolled aluminum alloy sheet, 50 to 400 particles of particle sizes in the range of 0.05 to 1  $\mu\text{m}$  are dispersed in an area of 300  $\mu\text{m}^2$  when observed under a TEM at a magnification in the range of 5,000 $\times$  to 15,000 $\times$  magnification, and the ratio of the number of the dispersed particles of sizes of 0.3  $\mu\text{m}$  or above to the number of all the dispersed particles is in the range of 15 to 70%.

IPC 8 full level  
**C22C 21/06** (2006.01); **C22C 21/00** (2006.01); **C22F 1/04** (2006.01)

CPC (source: EP KR US)  
**C22C 21/00** (2013.01 - EP US); **C22C 21/06** (2013.01 - KR); **C22C 21/08** (2013.01 - EP US); **C22F 1/047** (2013.01 - EP KR US)

Citation (search report)  
• [X] JP 2000219929 A 20000808 - KOBE STEEL LTD  
• [X] JP H10310837 A 19981124 - FURUKAWA ELECTRIC CO LTD  
• [A] JP H02270929 A 19901106 - KOBE STEEL LTD  
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• [A] US 6004409 A 19991221 - DORWARD RALPH C [US], et al  
• [A] EP 0099739 A2 19840201 - CONTINENTAL GROUP [US]  
• See also references of WO 2007052416A1

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