

Title (en)  
PROCESS FOR PREPARING AN ALUMINUM ALLOY SHEET WITH IMPROVED BENDABILITY AND ALUMINUM ALLOY SHEET PRODUCED THEREFROM

Title (de)  
VERFARHEN ZUR HERSTELLUNG EINES MIT VERBESSERTER BIEGBARKEIT BLECHES AUS ALUMINIUMLEGIERUNG UND DARAUS HERGESTELLTES BLECH AUS ALUMINIUMLEGIERUNG

Title (fr)  
PROCEDE DE PREPARATION D'UNE FEUILLE EN ALLIAGE D'ALUMINIUM A APTITUDE AU PLIAGE AMELIOREE ET FEUILLE EN ALLIAGE D'ALUMINIUM AINSI PRODUITE

Publication  
**EP 1390553 A1 20040225 (EN)**

Application  
**EP 02727087 A 20020502**

Priority  
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• US 28838101 P 20010503

Abstract (en)  
[origin: WO02090608A1] A process is described for producing an aluminum alloy sheet having excellent bendability for use in forming panels for automobiles. An aluminum alloy is used comprising 0.5 - 0.75% by weight Mg, 0.7 - 0.85% by weight Si, 0.15 - 0.35% by weight Mn 0.1 - 0.3% by weight Fe, optionally 0.2 - 0.4% by weight Cu and the remainder Al and incidental impurities, and this alloy is cast into ingots by semi-continuous casting. The ingot is subjected to hot rolling and cold rolling, followed by solution heat treatment of the formed sheet. This sheet material is then pre-aged by rapidly cooling from an initial pre-aging temperature of at least 80 DEG C to room temperature at a cooling rate of more than 5 DEG C/hour.

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**C22C 21/02**; **C22C 21/08**; **C22F 1/05**

IPC 8 full level  
**B22D 11/00** (2006.01); **B22D 11/049** (2006.01); **C22C 21/02** (2006.01); **C22C 21/06** (2006.01); **C22C 21/08** (2006.01); **C22F 1/00** (2006.01); **C22F 1/043** (2006.01); **C22F 1/047** (2006.01); **C22F 1/05** (2006.01)

CPC (source: EP US)  
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Citation (search report)  
See references of WO 02090608A1

Cited by  
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DOCDB simple family (application)  
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