

Title (en)

High-strength, formable, isotropic aluminium alloys for deep drawing.

Title (de)

Zum Tiefziehen geeignete Hochfeste verformbare isotropische Legierungen auf Aluminiumbasis.

Title (fr)

Alliages d'al pour emboutissage-étirage résistants, formables et isotropes.

Publication

EP 0666330 A3 19960717 (FR)

Application

EP 95105950 A 19920312

Priority

- CA 2077315 A 19920901
- EP 92420073 A 19920312
- FR 9103662 A 19910314

Abstract (en)

[origin: EP0504077A1] Al-based alloys intended for deep drawing and/or drawing and exhibiting high mechanical strength characteristics as well as good isotropy (low distortion wedge content) and good cold processability. The alloys according to the invention have the following compositions by weight (%): (I) (II) Fe \leq 0.25 from 0.7 to 1.5 Si \leq 0.25 \leq 0.4 Mn from 0.8 to 1.6 \leq 0.8 Mg from 0.7 to 2.5 from 1.5 to 3 Cu from 0 to 0.6 from 0 to 0.6 Cr from 0 to 0.35 from 0 to 0.35 Ti from 0 to 0.1 from 0 to 0.1 V from 0 to 0.1 from 0 to 0.1 Remainder Al and unavoidable remainder Al and unavoidable impurities: impurities Each \leq 0.05% \leq 0.05 Total \leq 0.15% \leq 0.15 They are particularly well-suited for the manufacture of drawn cans, particularly beverage cans, which are lighter and/or stronger with an increased saving of material, the manufacturing range being wholly comparable with that of the conventional alloys (3004/3104), with optional omission of the intermediate annealing operations.

IPC 1-7

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IPC 8 full level

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CPC (source: EP)

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Citation (search report)

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- [A] WO 9010091 A1 19900907 - GOLDEN ALUMINUM CO [US]
- [X] DATABASE WPI Section Ch Week 8620, Derwent World Patents Index; Class M26, AN 86-127770, XP002003683

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