

Title (en)

Sheet and plate of alloyed zinc

Title (de)

Bänder und Tafeln aus legiertem Zink

Title (fr)

Bandes et plaques en alliage de zinc

Publication

EP 0723028 A2 19960724 (DE)

Application

EP 95119186 A 19951206

Priority

DE 4446771 A 19941224

Abstract (en)

In strips and sheets of alloyed zinc based on fine zinc of at least 99.99% purity with addns. of 0.05-0.2 wt.% Ti, 0.02-0.2 wt.% Cu and 0.005-0.05 wt.% Al, pref. for constructional applications, the novelty comprises either (a) the addn. of 0.005-0.04 wt.% Mg or 0.01-0.1 wt.% Li; or (b) the addn. of 0.005-0.0075 wt.% Mg and 0.01-0.45 wt.% Li. Also claimed are processes for prodn. of the above strips and sheets by continuous casting the above alloys to strip between circulating metal belts, immediately followed by multistage rolling to the prescribed thickness, the last rolling stage being above or below the recrystallisation temp.. Pref. the finish rolling temp. is 100-250 (esp. 100-170) degrees C for the Zn alloy contg. addn. (a). The last rolling stage for the Zn alloy contg. addn. (b) is below the recrystallisation temp., the strip pref. being cold rolled and then reheated at 150-300 degrees C for 0.75-2.5 hrs..

Abstract (de)

Bänder und Tafeln aus legiertem Zink enthalten Zusätze von 0,05 bis 0,2 Gew.% Titan, 0,02 bis 0,2 Gew.% Kupfer, 0,005 bis 0,05 Gew.% Aluminium. Zur Verbesserung der mechanischen Eigenschaften sind als Zusatz noch 0,005 bis 0,04 Gew.% Magnesium oder 0,01 bis 0,1 Gew.% Lithium zugefügt. <IMAGE> <IMAGE>

IPC 1-7

C22C 18/02

IPC 8 full level

C22C 18/02 (2006.01)

CPC (source: EP)

C22C 18/02 (2013.01)

Citation (applicant)

- DE 1758489 A1 19710211 - STOLBERGER ZINK AG
- "DIN 17 770 Teil 1"
- "DIN 17 770 Teil 2"

Cited by

CN108281227A; US6916546B2; CN114045414A

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DE 4446771 A1 19960627; DE 59508423 D1 20000706; EP 0723028 A2 19960724; EP 0723028 A3 19961016; EP 0723028 B1 20000531; ES 2148413 T3 20001016; SI 9500382 A 19960630

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