

Title (en)

7XXX SERIES ALUMINUM ALLOY OR PLATE, MANUFACTURING METHOD THEREFOR, PROCESSING METHOD THEREFOR, AND APPLICATION THEREOF

Title (de)

ALUMINIUMLEGIERUNG ODER -PLATTE DER 7XXX-SERIE, HERSTELLUNGSVERFAHREN DAFÜR, VERARBEITUNGSVERFAHREN DAFÜR UND ANWENDUNG

Title (fr)

ALLIAGE OU PLAQUE D'ALUMINIUM SÉRIE 7XXX, SON PROCÉDÉ DE FABRICATION, SON PROCÉDÉ DE TRAITEMENT ET SON APPLICATION

Publication

EP 4063530 A4 20230719 (EN)

Application

EP 20901677 A 20201217

Priority

- CN 201911301001 A 20191217
- CN 2020137405 W 20201217

Abstract (en)

[origin: EP4063530A1] The invention relates to a 7xxx series aluminum alloy or sheet. The 7xxx series aluminum alloy or sheet comprise, by weight, Zn in 5.1-10.0%, Mg in 2.0-3.2%, Cu in 1.2-3.0%, Fe in 0-0.5%, Si in 0-0.4%, Ti in 0-0.2%, Cr in 0-0.1%, Zr in 0-0.055%, Mn in 0-0.25%, other grain size controlling element(s) in 0-0.30%, and Al in balance. The 7xxx series aluminum alloy sheet is particularly suitable for integrated hot forming-quenching processing. The invention also relates to a process of producing and a process of processing the 7xxx series aluminum alloy or sheet and use of the 7xxx series aluminum alloy or sheet in producing vehicle parts.

IPC 8 full level

C22C 21/10 (2006.01); **C22F 1/053** (2006.01)

CPC (source: CN EP)

C22C 21/10 (2013.01 - CN EP); **C22F 1/002** (2013.01 - CN EP); **C22F 1/053** (2013.01 - CN EP)

Citation (search report)

- [X] GB 476930 A 19371216 - TENNYSON FRASER BRADBURY
- [X] EP 3265595 B1 20190313 - NOVELIS INC [US]
- [X] US 2005236075 A1 20051027 - GHEORGHE IULIAN [US], et al
- See references of WO 2021121343A1

Designated contracting state (EPC)

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