

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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