

Title (en)

7XXX ALLOY COMPONENTS FOR DEFENSE APPLICATION WITH AN IMPROVED SPALL RESISTANCE

Title (de)

7XXX-LEGIERUNGSKOMPONENTEN FÜR ABWEHRANWENDUNG MIT VERBESSERTER SPLITTERBESTÄNDIGKEIT

Title (fr)

COMPOSANTS D'ALLIAGE 7XXX TROUVANT UNE APPLICATION DANS LA DÉFENSE ET PRÉSENTANT UNE RÉSISTANCE AUX ÉCLATS AMÉLIORÉE

Publication

**EP 3394305 A4 20191030 (EN)**

Application

**EP 16844967 A 20160907**

Priority

- US 201562215842 P 20150909
- US 2016050523 W 20160907

Abstract (en)

[origin: WO2017044471A1] The present application relates to armor components made of high strength aluminum, such as 7xxx series aluminum alloys, which may be employed in civil or military ballistic protection systems. It relates more particularly to armor components such as armor hull walls and add-on armor appliques in vehicles.

IPC 8 full level

**C22C 21/10** (2006.01); **B22D 7/00** (2006.01); **B22D 19/16** (2006.01); **C22F 1/053** (2006.01)

CPC (source: EP IL KR US)

**B22D 7/00** (2013.01 - EP IL US); **B22D 7/005** (2013.01 - EP IL KR US); **B22D 19/16** (2013.01 - EP IL KR US);  
**C22C 21/10** (2013.01 - EP IL KR US); **C22F 1/053** (2013.01 - EP IL KR US)

Citation (search report)

- [X] US 2006174980 A1 20060810 - BENEDICTUS RINZE [NL], et al
- [X] US 8206517 B1 20120626 - BUSH DUSTIN M [US], et al
- [A] EP 2662467 A1 20131113 - KAISER ALUMINUM FABRICATED PRODUCTS LLC [US]
- See references of WO 2017044471A1

Cited by

US11072844B2; US10835942B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**WO 2017044471 A1 20170316**; BR 112018003521 A2 20180918; CA 2997667 A1 20170316; CA 2997667 C 20231128;  
EP 3394305 A1 20181031; EP 3394305 A4 20191030; EP 3394305 B1 20230405; FI 3394305 T3 20230616; IL 257432 A 20180430;  
IL 257432 B1 20230101; IL 257432 B2 20230501; KR 102611753 B1 20231207; KR 20180084036 A 20180724; PL 3394305 T3 20230814;  
US 2018258517 A1 20180913

DOCDB simple family (application)

**US 2016050523 W 20160907**; BR 112018003521 A 20160907; CA 2997667 A 20160907; EP 16844967 A 20160907; FI 16844967 T 20160907;  
IL 25743218 A 20180208; KR 20187009538 A 20160907; PL 16844967 T 20160907; US 201615758316 A 20160907