

Title (en)

ARMOR PLATE, ARMOR PLATE COMPOSITE AND ARMOR

Title (de)

PANZERUNGSPLATTE, PANZERUNGSPLETTENVERBUND UND PANZERUNG

Title (fr)

PLAQUE DE BLINDAGE, COMPOSITE DE PLAQUES DE BLINDAGE ET BLINDAGE

Publication

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Application

EP 20822360 A 20200610

Priority

- DE 102019116153 A 20190613
- IB 2020055448 W 20200610

Abstract (en)

[origin: WO2020250147A1] Armor plate having a thickness of at least 3 mm and an edge length of at least 20 mm, wherein the armor plate (10) consists of a material made largely of a component selected from the group hard metal, cermet and/or combinations thereof. An armor plate composite comprising at least two layers of armor plates and an armor are also provided.

IPC 8 full level

F41H 5/04 (2006.01); **B32B 3/18** (2006.01); **B32B 7/12** (2006.01); **B32B 9/00** (2006.01); **B32B 9/04** (2006.01); **B32B 15/04** (2006.01); **B32B 15/14** (2006.01); **B32B 15/18** (2006.01); **B32B 15/20** (2006.01); **C22C 14/00** (2006.01); **C22C 21/00** (2006.01); **C22C 38/00** (2006.01)

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Citation (search report)

- [XYI] WO 2019016750 A1 20190124 - KENNAMETAL INC [US]
- [Y] US 2014076140 A1 20140320 - RAVID MOSHE [IL], et al
- [Y] US 5443917 A 19950822 - TARRY CHRISTOPHER A [US]
- [Y] US 2017299345 A1 20171019 - WALDROP BLAKE LOCKWOOD [US]
- [XA] US 2006060077 A1 20060323 - LUCUTA PETRU G [CA], et al
- See also references of WO 2020250147A1

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