

Title (en)
SHEET METAL PRODUCT WITH HIGH BENDABILITY AND MANUFACTURING THEREOF

Title (de)
BLECHPRODUKT MIT HOHER BIEGSAMKEIT UND HERSTELLUNG DAVON

Title (fr)
PRODUIT EN TÔLE À FLEXIBILITÉ ÉLEVÉE ET SON PROCÉDÉ DE FABRICATION

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EP 3741880 A1 20201125 (EN)

Application
EP 19175448 A 20190520

Priority
EP 19175448 A 20190520

Abstract (en)
The invention refers to a method of manufacturing a sheet metal product (10) including the steps of: a) providing a molten magnesium alloy consisting of: 0.2 wt% to 2 wt% Zn, - an amount of Ca, - 0.0 wt% to 0.3 wt% Zr, - 0.0 wt% to 1.0 wt% rare earth elements and/or Sr, - unavoidable impurities, and - the balance being Mg; b) forming a strip in a twin roll casting process; c) performing a warm rolling process on the strip and d) performing a subsequent heat treatment on the strip at 250 °C to 450 °C for 0,5 min to 60 min. It is provided that the amount of Ca is chosen from an interval [0.1 wt%, 0.4 wt%]. The invention further refers to a sheet metal product (10), obtained or obtainable by the method of the invention.

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C22C 23/04 (2006.01); **C22F 1/06** (2006.01)

CPC (source: EP)
C22C 23/04 (2013.01); **C22F 1/06** (2013.01)

Citation (applicant)

- EP 3205736 A1 20170816 - VOLKSWAGEN AG [DE], et al
- DE 112014002336 T5 20160121 - BAOSHAN IRON & STEEL CO [CN]
- JP 2006028548 A 20060202 - TOYOTA CENTRAL RES & DEV
- EP 2644728 A2 20131002 - POSTECH ACAD IND FOUND [KR]

Citation (search report)

- [IDA] EP 2644728 A2 20131002 - POSTECH ACAD IND FOUND [KR]
- [AD] EP 3205736 A1 20170816 - VOLKSWAGEN AG [DE], et al
- [XA] US 2015047756 A1 20150219 - WASHIO KOTA [JP], et al

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