

Title (en)
ZIRCONIUM-BASED AMORPHOUS ALLOY AND PREPARATION METHOD THEREFOR

Title (de)
ZIRKONIUMBASIERTE AMORPHE LEGIERUNG UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)
ALLIAGE AMORPHE À BASE DE ZIRCON ET SON PROCÉDÉ DE PRÉPARATION

Publication
EP 3045557 A4 20160831 (EN)

Application
EP 14843474 A 20140815

Priority
• CN 201310410770 A 20130910
• CN 2014084500 W 20140815

Abstract (en)
[origin: EP3045557A1] Provided are a zirconium-based amorphous alloy and a preparation method therefor. By adjusting the atomic percentage contents of the components in the zirconium-based amorphous alloy and adding the elements of Y, Sc, Si and C thereto, the zirconium-based amorphous alloy can not only have excellent mechanical properties, but can also greatly lower the preparation requirements of the amorphous alloy.

IPC 8 full level
C22C 45/10 (2006.01); **B22D 21/02** (2006.01); **C22C 1/00** (2006.01); **C22C 1/02** (2006.01); **C22C 16/00** (2006.01)

CPC (source: EP US)
B22D 21/022 (2013.01 - US); **C22C 1/00** (2013.01 - EP US); **C22C 1/02** (2013.01 - EP US); **C22C 1/11** (2023.01 - EP US);
C22C 16/00 (2013.01 - EP US); **C22C 45/10** (2013.01 - EP US)

Citation (search report)
• [Y] WO 2011047591 A1 20110428 - BYD CO LTD [CN], et al
• [Y] WO 2013087022 A1 20130620 - SHENZHEN BYD AUTO R & D CO LTD [CN], et al
• [A] CN 102061429 A 20110518 - BYD CO LTD
• [A] WO 2011050680 A1 20110505 - BYD CO LTD [CN], et al
• [A] US 2003079813 A1 20030501 - ZHANG YONG [CN], et al
• See references of WO 2015035845A1

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3045557 A1 20160720; **EP 3045557 A4 20160831**; **EP 3045557 B1 20190417**; CN 103484800 A 20140101; CN 103484800 B 20151209;
US 2016186293 A1 20160630; WO 2015035845 A1 20150319

DOCDB simple family (application)
EP 14843474 A 20140815; CN 201310410770 A 20130910; CN 2014084500 W 20140815; US 201615065807 A 20160309