

Title (en)  
ENVIRONMENTALLY FRIENDLY BRASS ALLOY FOR CASTING AND MANUFACTURING METHOD THEREFOR

Title (de)  
UMWELTFREUNDLICHE MESSINGLEGIERUNG ZUM GIESSEN UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)  
ALLIAGE DE LAITON ÉCOLOGIQUE POUR COULAGE ET SON PROCÉDÉ DE FABRICATION

Publication  
**EP 3650563 A4 20210407 (EN)**

Application  
**EP 18828473 A 20180703**

Priority  
• CN 201710551042 A 20170707  
• CN 2018094181 W 20180703

Abstract (en)  
[origin: EP3650563A1] Disclosed are an environmentally friendly brass alloy for casting and a manufacturing method therefor. The brass alloy is free of the elements selenium, tellurium, antimony, phosphorus, magnesium and manganese, and the components thereof are: 58-61.5 wt.% of Cu, ≤ 0.25 wt.% of Pb, 0.5-0.8 wt.% of Al, < 0.1 wt.% of Sn, < 0.1 wt.% of Ni, 0.02-0.15 wt.% of Fe, and 5-12 ppm of B, with the balance being Zn and inevitable impurities. In addition to excellent polishing performance and hot tearing resistance performance, the brass alloy has good comprehensive performance, and is suitable for casting formed bathroom plumbing parts.

IPC 8 full level  
**C22C 9/04** (2006.01); **C22C 1/02** (2006.01); **C22C 1/03** (2006.01); **C22C 1/06** (2006.01); **C22F 1/08** (2006.01)

CPC (source: CN EP)  
**C22C 1/02** (2013.01 - EP); **C22C 1/03** (2013.01 - CN EP); **C22C 1/06** (2013.01 - CN EP); **C22C 9/04** (2013.01 - CN EP); **C22F 1/08** (2013.01 - EP)

Citation (search report)  
• [X] JP 2011021273 A 20110203 - SAN ETSU METALS CO LTD  
• [I] EP 3050983 A1 20160803 - TOTO LTD [JP]  
• [A] WO 2017107917 A1 20170629 - XIAMEN LOTA INT CO LTD [CN]  
• [A] EP 2963134 A1 20160106 - JIANGXI AUDY BRASSWORK INC [CN]  
• [A] US 2016362767 A1 20161215 - LI JIADE [CN]  
• [A] US 2016145719 A1 20160526 - LI JIADE [CN]  
• [A] CN 106893883 A 20170627 - JOMOO KITCHEN & BATH APPLIANCES CORP  
• [A] CN 101440443 A 20090527 - NINGBO POWERWAY GROUP CO LTD [CN]  
• See references of WO 2019007309A1

Designated contracting state (EPC)  
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