

Title (en)  
LEAD-FREE BRASS ALLOY

Title (de)  
BLEIFREIE MESSINGLEGIERUNG

Title (fr)  
ALLIAGE DE LAITON SANS PLOMB

Publication  
**EP 4321642 A1 20240214 (DE)**

Application  
**EP 23189161 A 20230802**

Priority  
DE 102022120122 A 20220810

Abstract (de)  
Die Erfindung betrifft eine bleifreie Messinglegierung, enthaltend 56 bis 66% Cu, 0,1 bis 1,5% Ca, weniger als 0,1% Pb, Rest Zn sowie unvermeidbare Verunreinigungen.

IPC 8 full level  
**C22C 9/04** (2006.01)

CPC (source: EP)  
**C22C 9/04** (2013.01)

Citation (applicant)  

- EP 2913415 A1 20150902 - JIAXING IDC PLUMBING & HEATING TECHNOLOGY LTD [CN], et al
- CN 101565784 A 20091028 - NINGBO AODA COPPER PRODUCTS CO [CN]
- CN 1333094 A 20020130 - MITSUBISHI ELECTRIC CORP [JP]

Citation (search report)  

- [XY] KR 20080071276 A 20080804 - POONGSAN HOLDINGS CORP [KR]
- [XYI] CN 101550503 A 20091007 - UNIV CENTRAL SOUTH [CN]
- [YA] EP 3992321 A1 20220504 - MITSUBISHI MATERIALS CORP [JP]
- [A] CN 101565784 A 20091028 - NINGBO AODA COPPER PRODUCTS CO [CN]

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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**EP 4321642 A1 20240214**; DE 102022120122 A1 20240215

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**EP 23189161 A 20230802**; DE 102022120122 A 20220810