

Title (en)

BRASS HAVING IMPROVED CASTABILITY AND CORROSION RESISTANCE

Title (de)

MESSING MIT VERBESSERTER GIESSBARKEIT UND KORROSIONSBESTÄNDIGKEIT

Title (fr)

LAITON AYANT UNE COULABILITÉ AMÉLIORÉE ET UNE RÉSISTANCE À LA CORROSION

Publication

EP 3050983 A1 20160803 (EN)

Application

EP 16152304 A 20160121

Priority

- JP 2015014370 A 20150128
- JP 2015239068 A 20151208

Abstract (en)

Disclosed is a brass having reduced amounts of lead and nickel or not containing them, and having improved castability and corrosion resistance. The brass, comprising Sn in the range of 0.05% to 0.2% by mass, at least one or more elements selected from the group consisting of Sb, As, and P with total amount thereof in the range of 0.05% to 0.32% by mass, Al in the range of 0.1 % to 0.5% by mass, Zn in the range of 33.0% to 40.0% by mass, at least one or more elements selected from the group consisting of Pb and Bi with total amount thereof in the range of 0.005% to 0.25% by mass, Ni in the range of 0.5% or less by mass, Si in the range of 0.5% or less by mass, at least one or more elements selected from the group consisting of Fe and B with total amount thereof in the range of 0.0001% to 0.3% by mass, and the balance substantially consisting of Cu and unavoidable impurities, and also an apparent content of Zn in the range of 36% to 41 %, is excellent in castability and corrosion resistance.

IPC 8 full level

C22C 9/04 (2006.01); **C22F 1/08** (2006.01)

CPC (source: EP US)

B22D 21/005 (2013.01 - US); **C22C 1/02** (2013.01 - EP US); **C22C 9/04** (2013.01 - EP US); **C22F 1/08** (2013.01 - EP US); **E03C 1/02** (2013.01 - US)

Citation (applicant)

JP H0833783 A 19960206 - NHK SPRING CO LTD

Citation (search report)

- [X] WO 2014135181 A1 20140912 - GROHE AG [DE]
- [X] CN 101440443 A 20090527 - NINGBO POWERWAY GROUP CO LTD [CN]
- [A] CN 103469004 A 20131225 - YORHE FLUID INTELLIGENT CONTROL CO LTD
- [A] CN 103917675 A 20140709 - JIAXING IDC HEATING AND VENTILATION TECHNOLOGY CO LTD, et al
- [A] CN 104087782 A 20141008 - ZHEJIANG IDC FLUID CONTROL CO LTD, et al
- [A] JP 2010242184 A 20101028 - TOTO LTD
- [AD] JP H08337831 A 19961224 - TOTO LTD
- [A] US 2014251488 A1 20140911 - OISHI KEIICHIRO [JP], et al
- [A] CN 102312123 A 20120111 - ZHEJIANG IDC FLUID CONTROL CO LTD

Cited by

EP3650563A4; EP3395970A4; WO2017107917A1

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)

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DOCDB simple family (application)

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