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 B1 20190313 (EN)

Application

EP 16152304 A 20160121

Priority

- JP 2015014370 A 20150128
- JP 2015239068 A 20151208

Abstract (en)

[origin: EP3050983A1] 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 1/02 (2006.01); **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)

Cited by

EP3650563A4; EP3395970A4; WO2017107917A1

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