

Title (en)
COPPER ALLOY AND METHOD OF MANUFACTURING SAME

Title (de)
KUPFERLEGIERUNG UND VERFAHREN ZU DEREN HERSTELLUNG

Title (fr)
ALLIAGE DE CUIVRE ET PROCEDE DE FABRICATION CORRESPONDANT

Publication
EP 0947592 A4 20000322 (EN)

Application
EP 97939214 A 19970908

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- JP 23759196 A 19960909
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- JP 402797 A 19970113
- JP 3184997 A 19970217
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Abstract (en)
[origin: EP1270758A2] A method is disclosed for producing brass, which comprises the step of producing brass extrusions by hot extrusion of brass on the conditions: (1) that apparent Zn content (AZC) in the material composition is 37-46% by wt. wherein $AZC = \frac{A+B+t \cdot Q}{A+B+t \cdot Q} \times 100$ in which: A=Cu content in wt%, B=Zn content in wt%, T=Zn equivalent (wt%) of an added third element, Q=third element content in wt%; (2) that the temperature at the time of extrusion is in the range of 480-650 DEG C; and (3) that the sectional reduction ratio at the time of extrusion is 90% or more. The extrusion temperature is lower than the temperatures usually employed. The resulting brass extrusions exhibit useful improvements in the balance of corrosion resistance, machinability, ductility and strength. <IMAGE>

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

CPC (source: EP KR)
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[X] GB 2004912 A 19790411 - DIEHL GMBH & CO

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