

Title (en)
Corrosion resistant glassy metal alloys.

Title (de)
Korrosionsbeständige glasartige Metallegierungen.

Title (fr)
Alliages métalliques vitreux résistant à la corrosion.

Publication
EP 0026863 A1 19810415 (EN)

Application
EP 80105612 A 19800919

Priority
US 8319879 A 19791009

Abstract (en)
Corrosion resistant glassy metal alloys are provided which evidence a greater degree of corrosion resistance than prior art glassy metal alloys and conventional crystalline stainless steel alloys. The corrosion resistant glassy metal alloys consist essentially of from about 0 to 18 atom percent nickel, from 7 to about 21 atom percent chromium, from 0 to about 8 atom percent molybdenum, from about 13 to 18 atom percent of at least one element selected from the group consisting of phosphorus, carbon and boron, other than phosphorus plus carbon, and the balance essentially iron with the proviso that the ratio of phosphorus to the sum of phosphorus, boron and carbon is greater than or equal to 0.64.

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C22C 38/00; **C22C 38/18**; **C22C 38/22**; **C22C 38/40**; **C22C 38/44**

IPC 8 full level
C22C 45/02 (2006.01)

CPC (source: EP)
C22C 45/02 (2013.01)

Citation (search report)
• US 3986867 A 19761019 - MASUMOTO TSUYOSHI, et al
• US 3856513 A 19741224 - CHEN H, et al

Cited by
EP0207736A3; CN115233118A; CN115233117A

Designated contracting state (EPC)
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DOCDB simple family (publication)
EP 0026863 A1 19810415; CA 1164685 A 19840403; JP S5662948 A 19810529

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EP 80105612 A 19800919; CA 361476 A 19800930; JP 14191180 A 19801009