

Title (en)

PROCESS FOR THE MANUFACTURE OF HOLLOW BODIES OF AN ALUMINIUM ALLOY, AND PRODUCTS THUS OBTAINED

Publication

**EP 0020282 B1 19821229 (FR)**

Application

**EP 80420064 A 19800528**

Priority

FR 7915054 A 19790601

Abstract (en)

[origin: ES8102198A1] The invention relates to a process for obtaining hollow bodies made of aluminum alloy having a high bursting strength, and to the products thus obtained. The alloy contains (by weight): from 7.6 to 9.5% of Zn from 1 to 1.8% of Cu from 2.4 to 3.5% of Mg from 0.07 to 0.17% of Cr from 0.15 to 0.25% of Mn from 0.08 to 0.14% of Zr less than 0.2% of Fe, 0.15% of Si 0.10% of Ti and optionally less than 0.01% of V. It has a tensile stress (lengthwise direction) and a bursting strength (transverse direction) greater than or equal to 660 MPa. Its structure is characterized by the absence of large intermetallic compounds (>35 μm) after a specific solidification test. It can be used in all the safety applications involving a container under pressure (bottles of compressed gas, etc.).

IPC 1-7

**C22C 21/10; C22F 1/04**

IPC 8 full level

**C22C 21/10** (2006.01)

CPC (source: EP US)

**C22C 21/10** (2013.01 - EP US)

Cited by

US5932037A; EP1464719A1; EP0670377A1; FR2716896A1; EP0375571A1; FR2640644A1; WO03085146A1; WO9424326A1

Designated contracting state (EPC)

DE GB NL SE

DOCDB simple family (publication)

**EP 0020282 A1 19801210; EP 0020282 B1 19821229**; BE 883565 A 19801201; CA 1118190 A 19820216; CH 644402 A5 19840731; DE 3061495 D1 19830203; ES 491989 A0 19801216; ES 8102198 A1 19801216; FR 2457908 A1 19801226; FR 2457908 B1 19840302; IT 1130700 B 19860618; IT 8022416 A0 19800529; NO 153184 B 19851021; NO 153184 C 19860129; NO 801611 L 19801202; US 4345951 A 19820824; ZA 803235 B 19810527

DOCDB simple family (application)

**EP 80420064 A 19800528**; BE 200831 A 19800530; CA 353060 A 19800530; CH 421480 A 19800530; DE 3061495 T 19800528; ES 491989 A 19800530; FR 7915054 A 19790601; IT 2241680 A 19800529; NO 801611 A 19800530; US 15511680 A 19800530; ZA 803235 A 19800530