

Title (en)

Aluminum alloy and process for manufacture.

Title (de)

Legierung auf Aluminiumbasis und Verfahren zu ihrer Herstellung.

Title (fr)

Alliage à base d'aluminium et son procédé de fabrication.

Publication

EP 0099739 A2 19840201 (EN)

Application

EP 83304131 A 19830715

Priority

- US 39873482 A 19820715
- US 39873582 A 19820715
- US 48333783 A 19830408
- US 48345383 A 19830408

Abstract (en)

Non-galling, low earing can stock suitable for deep drawing and wall-ironing into can bodies is prepared from continuously cast aluminum alloy strip of an inch or less in thickness. The strip material is heated to a temperature of from 950 to 1150 DEG F for a time sufficient to homogenize the alloy. The homogenized strip material is cold rolled to effect a first reduction in sheet thickness of at least 25%. The cold rolled sheet is heated to a recovery temperature of up to about 550 DEG F, and subjected to a second cold rolling to effect a reduction in thickness of up to 30%. The cold rolled sheet product is heated to the recrystallization temperature and then subjected to effect a final reduction in thickness of at least 50% of the original thickness of the sheet to impart an H19 temper to the sheet. When aluminum alloy 3004 modified with 0.1 - 0.4% by weight chromium is used in the process continuous strip cast aluminum sheet is obtained which is suitable deep drawing and ironing into high buckle strength two-piece beverage containers.

IPC 1-7

C22F 1/04

IPC 8 full level

C22F 1/04 (2006.01)

CPC (source: EP)

C22F 1/04 (2013.01)

Cited by

EP1944384A4; EP0460055A4; EP2822717A4; CN115634928A; WO9835069A1

Designated contracting state (EPC)

AT BE CH DE FR IT LI LU NL SE

DOCDB simple family (publication)

EP 0099739 A2 19840201; EP 0099739 A3 19850508; EP 0099739 B1 19881207; AR 231408 A1 19841130; AU 1687583 A 19840119; AU 557719 B2 19870108; BR 8303778 A 19840221; DE 3378640 D1 19890112; DK 324383 A 19840116; DK 324383 D0 19830714; ES 524111 A0 19841101; ES 8501003 A1 19841101; GB 2123319 A 19840201; GB 2123319 B 19870325; GB 2172303 A 19860917; GB 2172303 B 19870325; GB 8319199 D0 19830817; GB 8519274 D0 19850904; NO 165349 B 19901022; NO 165349 C 19910130; NO 832560 L 19840116; PT 77030 A 19830801; PT 77030 B 19860124

DOCDB simple family (application)

EP 83304131 A 19830715; AR 29360983 A 19830714; AU 1687583 A 19830715; BR 8303778 A 19830714; DE 3378640 T 19830715; DK 324383 A 19830714; ES 524111 A 19830714; GB 8319199 A 19830715; GB 8519274 A 19850731; NO 832560 A 19830714; PT 7703083 A 19830714