Title (en)

ALUMINUM ALLOY AND PROCESS FOR MANUFACTURE

Publication

EP 0099739 B1 19881207 (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)

[origin: EP0099739A2] 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

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