

Title (en)

DEEP-DRAWABLE SHEET OR STRIP MADE FROM ALUMINIUM OR ALUMINIUM ALLOYS, AND PROCESS FOR ITS MANUFACTURE

Publication

**EP 0289775 B1 19921209 (DE)**

Application

**EP 88104904 A 19880326**

Priority

DE 3713909 A 19870425

Abstract (en)

[origin: US4886713A] A deep drawable sheet or strip of metal, preferably aluminum or an aluminum alloy having a surface treated for deep drawing characterized in that the surface has a microroughness, Ra, ranging between about 0.1 and 0.8  $\mu\text{m}$  and a uniform, honeycomb-shaped structure, wherein the honeycomb diameter ranges between about 20  $\mu\text{m}$  and about 200  $\mu\text{m}$  is provided.

IPC 1-7

**B21B 1/22**; **B21B 27/00**; **C22F 1/04**

IPC 8 full level

**B21B 1/22** (2006.01); **B21B 3/00** (2006.01); **B21B 27/00** (2006.01); **C22F 1/00** (2006.01); **C22F 1/04** (2006.01); **B21B 1/28** (2006.01)

CPC (source: EP KR US)

**B21B 1/227** (2013.01 - EP US); **B21B 3/00** (2013.01 - EP US); **C22C 1/04** (2013.01 - KR); **C22F 1/04** (2013.01 - EP US); **B21B 1/28** (2013.01 - EP US); **B21B 2003/001** (2013.01 - EP US); **B21B 2261/14** (2013.01 - EP US); **Y10T 428/12993** (2015.01 - EP US)

Cited by

EP0690142A1; EP0665448A1; FR2715593A1; EP1989009A4; WO0166276A1

Designated contracting state (EPC)

AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

**EP 0289775 A2 19881109**; **EP 0289775 A3 19900523**; **EP 0289775 B1 19921209**; AT E83180 T1 19921215; DE 3713909 A1 19881110; DE 3876484 D1 19930121; ES 2037756 T3 19930701; GR 3006950 T3 19930630; JP H01111850 A 19890428; KR 880012783 A 19881129; US 4886713 A 19891212

DOCDB simple family (application)

**EP 88104904 A 19880326**; AT 88104904 T 19880326; DE 3713909 A 19870425; DE 3876484 T 19880326; ES 88104904 T 19880326; GR 930400191 T 19930129; JP 9846088 A 19880422; KR 880004725 A 19880425; US 18553788 A 19880425