

Title (en)

Embossed sheet having a repetitive pattern, and engraved cylinder for manufacturing embossed sheets

Title (de)

Geprägtes Blech mit sich wiederholender Struktur, gravierter Zylinder zur Herstellung des geprägten Blechs

Title (fr)

Feuille gaufrée dotée d'un motif répétitif, et cylindre gravé pour la fabrication de feuilles gaufrées

Publication

EP 2316590 A1 20110504 (EN)

Application

EP 09013567 A 20091028

Priority

EP 09013567 A 20091028

Abstract (en)

An embossed sheet with a repetitive pattern has a plurality of pattern units. Each pattern unit comprises one or more raised elongated reliefs, an elongated relief having a length along a major axis and a width smaller than the length along a minor axis perpendicular to the major axis. The pattern units include first pattern units (PU1) having first elongated reliefs (R1) having the major axis parallel to a first direction (D1), and second pattern units (PU2) having second elongated reliefs (R2) having the major axis parallel to a second direction (D2) oriented traverse to the first direction, wherein a first pattern unit is surrounded by an even number of identical second pattern units. An angle between the first direction (D1) and the second direction (D2) is between 50° and 75°. The embossed sheets have excellent anti-slippage properties combined with low noise generation in use, good wear resistance and relatively low weight.

IPC 8 full level

B21H 7/00 (2006.01); **B21B 1/22** (2006.01); **B21B 27/00** (2006.01); **B21H 8/00** (2006.01); **E04F 15/06** (2006.01)

CPC (source: EP)

B21H 8/005 (2013.01); **E04F 11/112** (2013.01); **E04F 13/0871** (2013.01); **E04F 13/12** (2013.01); **E04F 15/06** (2013.01); **E04F 15/02188** (2013.01)

Citation (applicant)

GB 2312693 B 20000216 - PECHINEY RHENALU [FR]

Citation (search report)

- [IY] DE 9411626 U1 19941027 - VIESSMANN GMBH & CO [DE]
- [YA] DE 29706241 U1 19970522 - PECHINEY RHENALU [FR]
- [A] US 3627502 A 19711214 - REES WILLIAM H, et al
- [A] WO 2006029429 A1 20060323 - AMAG ROLLING GMBH [AT], et al

Cited by

FR3133770A1; WO2023180663A1; WO2022074320A1; FR3114983A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

EP 2316590 A1 20110504; **EP 2316590 B1 20120530**; DK 2316590 T3 20120910; ES 2386509 T3 20120822; PL 2316590 T3 20121031

DOCDB simple family (application)

EP 09013567 A 20091028; DK 09013567 T 20091028; ES 09013567 T 20091028; PL 09013567 T 20091028