

Title (en)  
APPARATUS AND METHOD FOR IMPARTING SELECTED TOPOGRAPHIES TO ALUMINUM SHEET METAL AND APPLICATIONS THERE FOR

Title (de)  
VORRICHTUNG UND VERFAHREN ZUM EINPRÄGEN AUSGEWÄHLTER TOPOGRAFIEN IN EIN ALUMINIUMBLECH UND ANWENDUNGEN DAFÜR

Title (fr)  
DISPOSITIF ET PROCÉDÉ DE GAUFRAGE DE TOPOGRAPHIES SÉLECTIONNÉES DANS UN MÉTAL EN FEUILLE D'ALUMINIUM ET APPLICATIONS POUR CEUX-CI

Publication  
**EP 2919925 B1 20190227 (EN)**

Application  
**EP 13853281 A 20131108**

Priority  
• US 201213673468 A 20121109  
• US 201313892028 A 20130510  
• US 2013069188 W 20131108

Abstract (en)  
[origin: WO2014074844A1] A material handler formed from isotropic textured aluminum sheet rolled by rolls indented with spherical media, such as steel ball bearings, producing a sheet with a low coefficient of friction relative to particulate matter like flour. The slippery sheeting may be used to make tanks, silos, conduits and guides to facilitate storage and flow of the particulate matter.

IPC 8 full level  
**B21B 1/22** (2006.01); **B21B 27/00** (2006.01); **B21H 8/00** (2006.01); **B24C 1/06** (2006.01); **B65D 88/28** (2006.01); **B65D 90/64** (2006.01); **C21D 7/06** (2006.01)

CPC (source: EP KR RU)  
**B21B 1/22** (2013.01 - RU); **B21B 1/227** (2013.01 - EP KR); **B21B 27/005** (2013.01 - KR); **B21H 8/005** (2013.01 - EP KR); **B65D 88/26** (2013.01 - EP KR); **B21B 27/005** (2013.01 - EP); **B21B 2001/228** (2013.01 - EP KR); **B21B 2003/001** (2013.01 - EP KR)

Designated contracting state (EPC)  
AL 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 RS SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2014074844 A1 20140515**; BR 112015010578 A2 20170711; CA 2890916 A1 20140515; CA 2890916 C 20210406; CN 105377456 A 20160302; DK 2919925 T3 20190520; EP 2919925 A1 20150923; EP 2919925 A4 20160803; EP 2919925 B1 20190227; ES 2727954 T3 20191021; HR P20190914 T1 20190726; KR 102220796 B1 20210226; KR 20160146489 A 20161221; PL 2919925 T3 20191129; RU 2015121945 A 20170110; RU 2676118 C2 20181226; SA 515360409 B1 20191003; SI 2919925 T1 20190830; TW 201436895 A 20141001

DOCDB simple family (application)  
**US 2013069188 W 20131108**; BR 112015010578 A 20131108; CA 2890916 A 20131108; CN 201380067360 A 20131108; DK 13853281 T 20131108; EP 13853281 A 20131108; ES 13853281 T 20131108; HR P20190914 T 20190516; KR 20157013854 A 20131108; PL 13853281 T 20131108; RU 2015121945 A 20131108; SA 515360409 A 20150509; SI 201331456 T 20131108; TW 102140921 A 20131111