

Title (en)
PAPER PRODUCT EDGE STRUCTURE AND PAPER PACKAGE

Title (de)
PAPIERPRODUKTRANDSTRUKTUR UND PAPIERVERPACKUNG

Title (fr)
STRUCTURE DE BORD DE PRODUIT EN PAPIER ET EMBALLAGE EN PAPIER

Publication
EP 3141489 A4 20180117 (EN)

Application
EP 14891448 A 20140509

Priority
JP 2014062443 W 20140509

Abstract (en)
[origin: EP3141489A1] An art of restraining deflection, and deterioration of an end portion of a paper product is provided. The present invention is an end portion structure of a paper product, and includes an end portion of the paper product, a bend portion that connects to the end portion, is bent to a side of the end portion, and is bonded to the end portion, a rectilinear bend line which is provided in a border between the end portion and the bend portion, and in which the bend portion is bent, and a ruled line that is provided in a vicinity of the bend line, and in the end portion or the bend portion, with a distance from the bend line changing, and is the ruled line in which the end portion or the bend portion bends when the bend portion is bent.

IPC 8 full level
B65D 5/42 (2006.01); **B65D 85/10** (2006.01)

CPC (source: EP KR RU)
B65D 5/38 (2013.01 - EP); **B65D 5/42** (2013.01 - KR RU); **B65D 5/4266** (2013.01 - EP); **B65D 5/443** (2013.01 - EP); **B65D 85/10** (2013.01 - KR); **B65D 85/1036** (2013.01 - EP); **B65D 85/1045** (2013.01 - EP)

Citation (search report)

- [XYI] DE 19938167 A1 20010222 - FOCKE & CO [DE]
- [Y] WO 2013075989 A1 20130530 - PHILIP MORRIS PROD [CH]
- [Y] US 2011062037 A1 20110317 - BERTUZZI IVANOE [IT], et al
- [A] WO 2011106921 A1 20110909 - HONGTA TOBACCO GROUP CO LTD [CN], et al
- [A] WO 2012109096 A1 20120816 - MEADWESTVACO PACKAGING SYSTEMS [US], et al
- See also references of WO 2015170395A1

Cited by
US10893704B2

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)
EP 3141489 A1 20170315; **EP 3141489 A4 20180117**; **EP 3141489 B1 20190417**; CN 106458357 A 20170222; CN 106458357 B 20180529; JP 6165327 B2 20170719; JP WO2015170395 A1 20170420; KR 101943723 B1 20190129; KR 20160143780 A 20161214; RU 2647379 C1 20180315; WO 2015170395 A1 20151112

DOCDB simple family (application)
EP 14891448 A 20140509; CN 201480078742 A 20140509; JP 2014062443 W 20140509; JP 2016517771 A 20140509; KR 20167031208 A 20140509; RU 2016148205 A 20140509