

Title (en)

ELECTROPHOTOGRAPHIC BELT AND ELECTROPHOTOGRAPHIC IMAGE FORMING APPARATUS

Title (de)

ELEKTROFOTOGRAPHISCHES BAND UND VORRICHTUNG ZUR ELEKTROFOTOGRAPHISCHEN BILDERZEUGUNG

Title (fr)

COURROIE ÉLECTROPHOTOGRAPHIQUE ET APPAREIL DE FORMATION D'IMAGE ÉLECTROPHOTOGRAPHIQUE

Publication

EP 3731023 A1 20201028 (EN)

Application

EP 20170549 A 20200421

Priority

- JP 2019084092 A 20190425
- JP 2020066733 A 20200402

Abstract (en)

An endless-shaped electrophotographic belt with a cleaning blade provides improvement in transfer remaining toner wiping properties. The electrophotographic belt has an endless shape including, on an outer circumferential surface thereof, grooves and lands. The grooves extend in a circumferential direction of the belt and the lands are positioned between the grooves. The belt further has on the outer circumferential surface, one or more convex portion(s) between at least one of the grooves and one of the lands adjacent to the one of the grooves, and in a cross section of the belt in a direction orthogonal to a direction of which the grooves extend, the convex portion(s) projects more than the lands.

IPC 8 full level

G03G 15/16 (2006.01)

CPC (source: EP)

G03G 15/161 (2013.01); **G03G 15/162** (2013.01); **G03G 15/1685** (2013.01); **G03G 2215/1661** (2013.01)

Citation (applicant)

JP 2005082327 A 20050331 - CANON KK

Citation (search report)

- [XA] US 2015177653 A1 20150625 - SEKI HIROYUKI [JP], et al
- [XA] US 2003002892 A1 20030102 - SAITO MAKOTO [JP], et al
- [X] US 6643487 B1 20031104 - SHIMMURA SHOKO [JP]
- [A] ZHANG JUN ET AL: "Fabrication of thin-film organic transistor on flexible substrate via ultraviolet transfer embossing", APPLIED PHYSICS LETTERS, A I P PUBLISHING LLC, US, vol. 90, no. 24, 11 June 2007 (2007-06-11), pages 243502 - 243502, XP012095308, ISSN: 0003-6951, DOI: 10.1063/1.2747670
- [A] YIN ZHIFU ET AL: "A novel bonding method for fabrication of PMMA nanofluidic chip with low deformation of the nano-trenches", MICROFLUIDICS AND NANOFUIDICS, SPRINGER, DE, vol. 22, no. 9, 24 August 2018 (2018-08-24), pages 1 - 10, XP036599303, ISSN: 1613-4982, [retrieved on 20180824], DOI: 10.1007/S10404-018-2121-X

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3731023 A1 20201028; EP 3731023 B1 20220907

DOCDB simple family (application)

EP 20170549 A 20200421