

Title (en)
BUCKLE HAVING EASY SEPARATION OPERATION

Title (de)
SCHNALLE MIT LEICHTEM TRENNUNGSBETRIEB

Title (fr)
BOUCLE AYANT UN FONCTIONNEMENT DE SÉPARATION FACILE

Publication
EP 3123890 A4 20171129 (EN)

Application
EP 15879081 A 20151214

Priority
• KR 20150010143 A 20150121
• KR 2015013667 W 20151214

Abstract (en)
[origin: EP3123890A1] A buckle includes a male buckle member and a female buckle member. The male buckle member has: a male buckle body having a first coupler at a first end; a guide formed at a second end of the male buckle body and having a first guide surface; and an elastic arm formed at the second end of the male buckle body at a predetermined distance from the guide, being bendable toward the guide, and having a projection and a second guide surface. The female buckle member has: a female buckle body having a second coupler at a first end; a housing formed at a second end of the female buckle body and having a space for receiving the guide and the elastic arm; and a side hole formed to secure the projection of the elastic arm when the guide and the elastic arm are inserted in the space.

IPC 8 full level
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CPC (source: CN EP KR US)
A43C 11/00 (2013.01 - CN); **A43C 11/14** (2013.01 - EP US); **A44B 11/25** (2013.01 - CN EP KR US); **A44B 11/2592** (2013.01 - EP US); **A44B 11/266** (2013.01 - EP US)

Citation (search report)
• [XY] US 5438737 A 19950808 - ANSCHER JOSEPH [US], et al
• [XYI] EP 1388301 A1 20040211 - YKK CORP [JP]
• [X] US 5974639 A 19991102 - KELLER STEVEN C [US]
• [Y] KR 19980087244 A 19981205
• [Y] KR 20110011759 U 20111221
• See references of WO 2016117827A1

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 3123890 A1 20170201; **EP 3123890 A4 20171129**; CN 106132232 A 20161116; CN 106132232 B 20190201; JP 2017512618 A 20170525; JP 6267827 B2 20180124; KR 101639370 B1 20160713; US 2016374436 A1 20161229; WO 2016117827 A1 20160728

DOCDB simple family (application)
EP 15879081 A 20151214; CN 201580016058 A 20151214; JP 2017502561 A 20151214; KR 20150010143 A 20150121; KR 2015013667 W 20151214; US 201615258239 A 20160907