

Title (en)

FASTENER ELEMENT, MANUFACTURING DEVICE FOR FASTENER ELEMENT, AND MANUFACTURING METHOD FOR FASTENER ELEMENT

Title (de)

BEFESTIGUNGSELEMENT, HERSTELLUNGSVORRICHTUNG FÜR BEFESTIGUNGSELEMENT UND HERSTELLUNGSVERFAHREN FÜR BEFESTIGUNGSELEMENT

Title (fr)

ÉLÉMENT DE FERMETURE, DISPOSITIF ET PROCÉDÉ DE FABRICATION D'ÉLÉMENT DE FERMETURE

Publication

EP 3453276 A4 20191030 (EN)

Application

EP 16901075 A 20160506

Priority

JP 2016063679 W 20160506

Abstract (en)

[origin: EP3453276A1] This fastener element (10) has a coupling head portion (11) and a tape holding portion (16) provided with a body portion (17), a first leg portion (18a), and a second leg portion (18b). The tape holding portion (16) has at least one notch portion (21) that is open on a tape holding surface (19), and a bulging portion (22) that bulges out adjacently with respect to a bottom surface (21a) in the element thickness direction of the notch portion (21). Such a fastener element (10) can be easily manufactured from a Y-shaped wire material (50). Furthermore, the slip strength and pull-out strength of the fastener element (10) can be increased by implanting the fastener element (10) in a fastener tape (3).

IPC 8 full level

A44B 19/02 (2006.01); **A44B 19/06** (2006.01); **A44B 19/42** (2006.01); **B21D 53/50** (2006.01)

CPC (source: EP KR)

A44B 19/02 (2013.01 - KR); **A44B 19/06** (2013.01 - EP); **A44B 19/42** (2013.01 - EP KR); **B21D 53/50** (2013.01 - EP); **B21F 45/18** (2013.01 - KR)

Citation (search report)

- [A] US 4004327 A 19770125 - FUKUROI TAKEO, et al
- See references of WO 2017191688A1

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 3453276 A1 20190313; **EP 3453276 A4 20191030**; **EP 3453276 B1 20201028**; CN 109068814 A 20181221; CN 109068814 B 20210409; JP 6833829 B2 20210224; JP WO2017191688 A1 20181108; KR 102059847 B1 20191227; KR 20180118766 A 20181031; WO 2017191688 A1 20171109

DOCDB simple family (application)

EP 16901075 A 20160506; CN 201680084671 A 20160506; JP 2016063679 W 20160506; JP 2018515389 A 20160506; KR 20187028649 A 20160506