

Title (en)

DEVICE FOR CONTROLLING A ZIP-CLOSURE SYSTEM OF AN ARTICLE AND CORRESPONDING ARTICLE

Title (de)

VORRICHTUNG ZUR STEUERUNG EINES REISSVERSCHLUSSSYSTEMS EINES ARTIKELS UND ZUGEHÖRIGER ARTIKEL

Title (fr)

DISPOSITIF DE CONTRÔLE D'UN SYSTÈME DE FERMETURE À GLISSIÈRE D'UN ARTICLE ET ARTICLE CORRESPONDANT

Publication

EP 3271904 B1 20190102 (FR)

Application

EP 16715021 A 20160317

Priority

- FR 1552279 A 20150319
- FR 2016050594 W 20160317

Abstract (en)

[origin: WO2016146951A1] The invention concerns a device for controlling the closed or open state of an article, the control device being in the form of an electronic circuit comprising a zip-closure system comprising two strips, on each of which there is attached a row of elements, referred to as teeth (11,..., 14, 20,...,25), made from electrically conductive material. A slider (3) is mounted sliding along the strips and configured in such a way as to mesh the teeth of one row with the teeth of the other row, in one direction, and to separate them in the other direction. A detection and signalling device (4) is connected to at least one of the teeth, referred to as the first terminal (21), and to at least one of the other teeth, referred to as the second terminal (24). The detection and signalling device is configured to detect the state of electrical continuity between the first and second terminals (21, 24), and to emit a signal depending on said detected state of continuity. The first terminal (21) and the second terminal (24) are spaced apart from each other by at least one tooth (22, 23), said at least one tooth having, in the separated state of the teeth of the two rows, no electrical connection with said terminals.

IPC 8 full level

G08B 21/00 (2006.01); **A41D 1/00** (2018.01); **A44B 19/24** (2006.01); **A44B 19/30** (2006.01); **H01H 1/12** (2006.01)

CPC (source: EP US)

A41D 1/005 (2013.01 - EP US); **A41D 1/06** (2013.01 - US); **A44B 19/02** (2013.01 - US); **A44B 19/24** (2013.01 - EP US); **A45F 3/04** (2013.01 - US); **H01H 1/12** (2013.01 - EP US); **H01H 9/54** (2013.01 - US); **A41D 2300/322** (2013.01 - US); **A45F 2003/001** (2013.01 - US); **H01H 2001/125** (2013.01 - EP US)

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 2016146951 A1 20160922; AU 2016231981 A1 20171012; AU 2016231981 B2 20201001; CA 2979747 A1 20160922; CA 2979747 C 20230829; DK 3271904 T3 20190408; EP 3271904 A1 20180124; EP 3271904 B1 20190102; ES 2716949 T3 20190618; FR 3033686 A1 20160923; FR 3033686 B1 20170407; JP 2018511901 A 20180426; JP 6876634 B2 20210526; TR 201904445 T4 20190422; US 10403450 B2 20190903; US 2018047526 A1 20180215

DOCDB simple family (application)

FR 2016050594 W 20160317; AU 2016231981 A 20160317; CA 2979747 A 20160317; DK 16715021 T 20160317; EP 16715021 A 20160317; ES 16715021 T 20160317; FR 1552279 A 20150319; JP 2017567553 A 20160317; TR 201904445 T 20160317; US 201615557914 A 20160317