

Title (en)

RETAINING DEVICE FOR AN OPTICAL MODULE HAVING AT LEAST ONE SPRING ELEMENT

Title (de)

HALTEVORRICHTUNG FÜR EIN OPTISCHES MODUL MIT MINDESTENS EINEM FEDERELEMENT

Title (fr)

DISPOSITIF DE RETENUE POUR UN MODULE OPTIQUE PRÉSENTANT AU MOINS UN ÉLÉMENT RESSORT

Publication

EP 3990284 A1 20220504 (DE)

Application

EP 20737096 A 20200625

Priority

- DE 102019209358 A 20190627
- EP 2020067881 W 20200625

Abstract (en)

[origin: WO2020260484A1] The invention relates to a retaining device comprising a) a retaining body which delimits an inner region at least on a first side and a further side opposite the first side, and b) at least one spring element, wherein the retaining body comprises a first receiving portion facing the inner region on the first side and a second receiving portion facing the inner region on the further side, wherein the retaining device is designed to retain at least one optical module, having a light inlet side and an opposing light outlet side, by means of the first receiving portion, the second receiving portion and the at least one spring element, such that, in the retained state, the at least one optical module is retained a) in a first direction running from the light inlet side to the light outlet side by means of an interlocking connection i. of the at least one optical module with the first receiving portion, and ii. of the at least one optical module with the second receiving portion, and b. opposite the first direction by means of a spring force of the at least one spring element directed against the at least one optical module. The invention also relates to a luminaire comprising the retaining device according to the invention, a printing machine comprising the luminaire according to the invention, a production method using the luminaire according to the invention, and uses of the retaining device according to the invention and of the luminaire.

IPC 8 full level

B41F 23/04 (2006.01); **B41F 16/00** (2006.01); **B41J 11/00** (2006.01); **F21V 19/00** (2006.01); **G02B 27/09** (2006.01)

CPC (source: CN EP US)

B41F 16/00 (2013.01 - CN); **B41F 23/00** (2013.01 - EP); **B41F 23/04** (2013.01 - CN); **B41F 23/0409** (2013.01 - EP); **B41F 23/0453** (2013.01 - EP); **B41J 11/00** (2013.01 - CN); **B41J 11/00214** (2021.01 - EP US); **B41J 11/00216** (2021.01 - EP US); **B41J 11/00218** (2021.01 - EP US); **F16F 1/18** (2013.01 - CN); **F21V 17/16** (2013.01 - CN); **F21V 17/164** (2013.01 - US); **F21V 19/00** (2013.01 - CN); **G02B 7/00** (2013.01 - CN EP); **G02B 7/02** (2013.01 - CN); **G02B 27/09** (2013.01 - CN EP US); **G02B 27/0961** (2013.01 - EP)

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)

DE 102019209358 A1 20201231; CN 114025963 A 20220208; CN 114025963 B 20231128; EP 3990284 A1 20220504; JP 2022538859 A 20220906; JP 7260680 B2 20230418; US 12032172 B2 20240709; US 2022228729 A1 20220721; WO 2020260484 A1 20201230

DOCDB simple family (application)

DE 102019209358 A 20190627; CN 202080046920 A 20200625; EP 2020067881 W 20200625; EP 20737096 A 20200625; JP 2021577174 A 20200625; US 202017615451 A 20200625