

Title (en)

OPTICAL BENCH SUBASSEMBLY HAVING INTEGRATED PHOTONIC DEVICE

Title (de)

BAUGRUPPE EINER OPTISCHEN BANK MIT INTEGRIERTER PHOTONISCHER VORRICHTUNG

Title (fr)

SOUS-ENSEMBLE DE BANC OPTIQUE COMPORTANT UN DISPOSITIF PHOTONIQUE INTÉGRÉ

Publication

EP 3274108 A1 20180131 (EN)

Application

EP 16717731 A 20160322

Priority

- US 201562136601 P 20150322
- US 201514695008 A 20150423
- US 201514714211 A 20150515
- US 2016023636 W 20160322

Abstract (en)

[origin: WO2016154229A1] An optical bench subassembly including an integrated photonic device. Optical alignment of the photonic device with the optical bench can be performed outside of an optoelectronic package assembly before attaching thereto. The photonic device is attached to a base of the optical bench, with its optical input/output in optical alignment with the optical output/input of the optical bench. The optical bench supports an array of optical fibers in precise relationship to a structured reflective surface. The photonic device is mounted on a submount to be attached to the optical bench. The photonic device may be actively or passively aligned with the optical bench. After achieving optical alignment, the submount of the photonic device is fixedly attached to the base of the optical bench. The optical bench subassembly may be structured to be hermetically sealed as a hermetic feedthrough, to be hermetically attached to a hermetic optoelectronic package.

IPC 8 full level

B21D 28/02 (2006.01); **B21D 37/12** (2006.01); **B26F 1/40** (2006.01); **G02B 6/36** (2006.01); **G02B 6/42** (2006.01)

CPC (source: EP RU)

B26F 1/40 (2013.01 - EP); **G02B 6/42** (2013.01 - RU); **G02B 6/4214** (2013.01 - EP); **G02B 6/423** (2013.01 - EP); **G02B 6/3652** (2013.01 - EP); **G02B 6/3696** (2013.01 - EP); **G02B 6/4243** (2013.01 - EP); **G02B 6/4245** (2013.01 - EP); **G02B 6/4246** (2013.01 - EP); **G02B 6/4249** (2013.01 - EP); **G02B 6/4251** (2013.01 - EP)

Citation (search report)

See references of WO 2016154229A1

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)

WO 2016154229 A1 20160929; AU 2016235324 A1 20171109; AU 2016235324 B2 20210520; BR 112017019567 A2 20180502; CA 2978955 A1 20160929; CN 107533202 A 20180102; CN 107533202 B 20210115; EP 3274108 A1 20180131; IL 254364 A0 20171130; JP 2018509655 A 20180405; JP 6898245 B2 20210707; KR 20170129236 A 20171124; MX 2017012155 A 20180219; RU 2017136256 A 20190423; RU 2017136256 A3 20190926; RU 2717374 C2 20200323

DOCDB simple family (application)

US 2016023636 W 20160322; AU 2016235324 A 20160322; BR 112017019567 A 20160322; CA 2978955 A 20160322; CN 201680023080 A 20160322; EP 16717731 A 20160322; IL 25436417 A 20170906; JP 2017546852 A 20160322; KR 20177030028 A 20160322; MX 2017012155 A 20160322; RU 2017136256 A 20160322