

Title (en)

CONFIGURING OPTICAL FIBERS TO EMIT RADIATION BY BENDING

Title (de)

KONFIGURATION VON GLASFASERN ZUR STRAHLUNGSABGABE DURCH BIEGUNG

Title (fr)

CONFIGURATION DE FIBRES OPTIQUES AFIN D'ÉMETTRE UN RAYONNEMENT PAR PLIAGE

Publication

EP 2812739 A1 20141217 (EN)

Application

EP 13743215 A 20130131

Priority

- US 201261592602 P 20120131
- US 201261678753 P 20120802
- IL 2013050099 W 20130131

Abstract (en)

[origin: WO2013114376A1] Optical fibers are provided herein, which comprise a core and a cladding and have at least one region of the cladding that is arranged to emit electromagnetic radiation from the core upon bending the optical fibers beyond a bending threshold. The optical fibers are integrated in devices that either use bended fibers or induce the bending upon contacting a target, to emit the radiation at the target.

IPC 8 full level

G02B 6/00 (2006.01); **A61B 18/22** (2006.01); **G02B 6/02** (2006.01); **G02B 6/032** (2006.01); **G02B 6/42** (2006.01)

CPC (source: EP US)

A61B 18/18 (2013.01 - US); **A61B 18/22** (2013.01 - EP US); **A61F 2/82** (2013.01 - EP); **G02B 6/02** (2013.01 - EP US); **A61B 2018/2222** (2013.01 - EP); **A61B 2018/2238** (2013.01 - EP US); **A61B 2018/2244** (2013.01 - EP US); **G02B 6/02333** (2013.01 - EP); **G02B 6/02357** (2013.01 - EP); **G02B 6/02361** (2013.01 - EP); **G02B 6/02366** (2013.01 - EP); **G02B 6/032** (2013.01 - EP); **G02B 6/4296** (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)

WO 2013114376 A1 20130808; **WO 2013114376 A8 20150409**; CN 104220908 A 20141217; EP 2812739 A1 20141217; EP 2812739 A4 20151202; JP 2015510142 A 20150402

DOCDB simple family (application)

IL 2013050099 W 20130131; CN 201380017555 A 20130131; EP 13743215 A 20130131; JP 2014553859 A 20130131