

Title (en)  
FIBER-OPTIC ACCELEROMETER

Title (de)  
FASEROPTISCHER BESCHLEUNIGUNGSSENSOR

Title (fr)  
ACCÉLÉROMÈTRE À FIBRE OPTIQUE

Publication  
**EP 3325980 A1 20180530 (DE)**

Application  
**EP 16766259 A 20160906**

Priority  
• DE 102015217430 A 20150911  
• EP 2016070950 W 20160906

Abstract (en)  
[origin: WO2017042151A1] The invention relates to a fiber-optic accelerometer (10) comprising: - an optical fiber (11, 35, 50) having a free end, said free end being caused to oscillate under the influence of acceleration; - a light source for emitting visible, ultraviolet or infrared light into the optical fiber (11, 35, 50) at an end of the fiber (11, 35, 50) opposite the free end; - a mirror (14, 24, 45), which is arranged to reflect part of the light exiting the free end back into the optical fiber (11, 35, 50); and - a detection device for capturing reflected light at the end of the fiber (11, 35, 50) opposite the free end, the core of the optical fiber (11, 35, 50) having a Bragg grating in the free end.

IPC 8 full level  
**G01P 15/093** (2006.01); **G01D 5/26** (2006.01)

CPC (source: EP KR US)  
**G01D 5/268** (2013.01 - KR US); **G01H 9/006** (2013.01 - EP US); **G01P 15/093** (2013.01 - EP KR US); **G01D 5/35316** (2013.01 - EP US)

Citation (search report)  
See references of WO 2017042151A1

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 2017042151 A1 20170316**; CN 107949792 A 20180420; DE 102015217430 A1 20170316; EP 3325980 A1 20180530; KR 20180049079 A 20180510; US 2018259551 A1 20180913

DOCDB simple family (application)  
**EP 2016070950 W 20160906**; CN 201680051978 A 20160906; DE 102015217430 A 20150911; EP 16766259 A 20160906; KR 20187010136 A 20160906; US 201615758422 A 20160906