

Title (en)
OPTICAL STRAIN GAUGE STRIPS

Title (de)
OPTISCHER DEHNUNGSMESSSTREIFEN

Title (fr)
JAUGE EXTENSOMETRIQUE OPTIQUE

Publication
EP 1896813 A2 20080312 (DE)

Application
EP 06762219 A 20060627

Priority

- EP 2006006214 W 20060627
- DE 102005030751 A 20050629

Abstract (en)
[origin: WO2007000324A2] The invention relates to an optical strain gauge strip (D), made from a planar support layer (6) preferably of plastic and a cover layer (19) between which an optical fibre (2, 3, 4) has a frictional fit. The optical fibre (2, 3, 4) comprises at least one section (L) with a Bragg grating (5) for recording the strain on a deformable body or a different component region. The invention is characterised in that the optical fibre (2, 3, 4) is let into at least one guide channel (7, 8, 9) in the support film forming the support layer (6). Said guide channel (7, 8, 9) with the optical fibre (2, 3, 4) and the Bragg grating (5) embossed therein is sealed with a covering film as outer layer (19), made from the same material as the support layer (6).

IPC 8 full level
G01L 1/24 (2006.01)

CPC (source: EP)
G01L 1/246 (2013.01)

Citation (search report)
See references of WO 2007000324A2

Citation (examination)
US 4750796 A 19880614 - SHIBATA YUTAKA [JP], et al

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2007000324 A2 20070104; WO 2007000324 A3 20070322; DE 102005030751 A1 20070111; EP 1896813 A2 20080312

DOCDB simple family (application)
EP 2006006214 W 20060627; DE 102005030751 A 20050629; EP 06762219 A 20060627