

Title (en)
OPTICAL DISPLACEMENT SENSOR.

Title (de)
OPTISCHER VERSCHIEBUNGSSENSOR.

Title (fr)
DETECTEUR OPTIQUE DE DEPLACEMENT.

Publication
EP 0639260 A4 19981209 (EN)

Application
EP 93911687 A 19930505

Priority
• AU 9300202 W 19930505
• AU PL224892 A 19920505

Abstract (en)
[origin: WO9322624A1] An optical displacement sensor (10) comprises a flexible tube (13) having a reflective internal surface. One end of the tube (13) is connected to a light source (14) via a solid optical fibre (11). The other end of the tube (13) is connected to a light detector (15) via another optical fiber (12). Light from source (14) passes through the tube (13) and is detected by detector (15). The tube (13) is connected to a measurand such that displacement of the measurand causes deformation of the tube (13), and such deformation is detected by variation in the intensity of light transmitted through the tube (13). The sensor is also able to detect changes in pressure to which the tube (13) is subjected. In a modified form, both the light source and detector are located at the same end of the tube, and light passing through the tube is reflected from the other end back to the detector.

IPC 1-7
G01D 5/34; **G01B 11/16**; **G01L 7/04**

IPC 8 full level
A61B 5/113 (2006.01); **G01D 5/26** (2006.01); **G01L 1/24** (2006.01); **G01L 11/02** (2006.01)

CPC (source: EP)
A61B 5/113 (2013.01); **G01D 5/268** (2013.01); **G01L 1/243** (2013.01); **G01L 11/025** (2013.01); **A61B 2562/0266** (2013.01)

Citation (search report)
• [A] WO 8100618 A1 19810305 - UNITED TECHNOLOGIES CORP [US]
• See references of WO 9322624A1

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
WO 9322624 A1 19931111; EP 0639260 A1 19950222; EP 0639260 A4 19981209

DOCDB simple family (application)
AU 9300202 W 19930505; EP 93911687 A 19930505