

Title (en)

DEVICE FOR GENERATING A LIGHT SIGNAL CHARACTERISTIC OF THE REFRACTIVE INDEX OF A FLUID AND ITS USE

Publication

EP 0000319 B2 19840905 (FR)

Application

EP 78810001 A 19780601

Priority

CH 810577 A 19770701

Abstract (en)

[origin: ES471327A1] A device for producing a light signal corresponding to the refractive index of a fluid medium comprises an elongated light-conducting body consisting of an input section and an output section connected to each other by an intermediate curved section adapted for immersion in said fluid. This curved section is provided with a plurality of curvatures arranged successively and bent alternately in opposite directions, whereby light passing by refraction into said fluid undergoes a notably greater variation, as a function of the refractive index of said fluid medium, than can be obtained with a curved section bent in a simple direction. A light signal is thus provided with a high sensitivity.

IPC 1-7

G02B 5/14; **G01N 21/41**; **G01F 23/28**

IPC 8 full level

G01N 21/41 (2006.01); **G01F 23/292** (2006.01); **G01N 21/43** (2006.01)

CPC (source: EP US)

G01F 23/2924 (2013.01 - EP US); **G01N 21/431** (2013.01 - EP US)

Cited by

GB2130739A; DE102008005843A1; EP0833134A3; EP0049220A1; EP0057667A3; EP0247909A1; FR2597971A1; EP0089098A3; EP0027099A1

Designated contracting state (EPC)

BE CH DE FR GB LU NL SE

DOCDB simple family (publication)

EP 0000319 A1 19790110; **EP 0000319 B1 19810902**; **EP 0000319 B2 19840905**; AU 3765978 A 19800103; AU 521314 B2 19820325; BR 7804186 A 19790403; CA 1102151 A 19810602; DE 2860995 D1 19811126; ES 471327 A1 19790116; IT 1096885 B 19850826; IT 7825155 A0 19780629; JP S5419794 A 19790214; JP S5918654 B2 19840428; MX 143781 A 19810713; US 4187025 A 19800205

DOCDB simple family (application)

EP 78810001 A 19780601; AU 3765978 A 19780630; BR 7804186 A 19780630; CA 306640 A 19780630; DE 2860995 T 19780601; ES 471327 A 19780630; IT 2515578 A 19780629; JP 7880178 A 19780630; MX 17398378 A 19780629; US 91998178 A 19780628