

Title (en)

POWER SUPPLY FOR THE LIGHT SOURCES OF FREQUENCY-MODULATED OPTICAL DETECTORS

Publication

EP 0173155 B1 19920205 (DE)

Application

EP 85110083 A 19850812

Priority

DE 3431996 A 19840831

Abstract (en)

[origin: US4707838A] A current supply is disclosed for frequency-proportional optical sensors, preferably fiber-optical sensors, having a constant amplitude modulated over time. The delay time of the modulation is kept constant as well in the current supply in order to increase the accuracy of measurement. A variable resistor that is connected in series with the LED or the semiconductor laser is used for this purpose. This resistor may for example be a photoresistor illuminated by a light source and the resistance value of this resistor is varied by an open-loop or closed-loop control circuit. The variable resistor may also be a resistor that is heated by its own current.

IPC 1-7

G05F 1/63; **H05B 33/08**

IPC 8 full level

G05F 1/63 (2006.01); **H05B 44/00** (2022.01)

CPC (source: EP US)

G05F 1/63 (2013.01 - EP US); **H05B 45/30** (2020.01 - EP US)

Cited by

CN103872567A; US5291884A; EP0293921A3; US4964010A; WO9213482A1

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DOCDB simple family (publication)

EP 0173155 A2 19860305; **EP 0173155 A3 19880107**; **EP 0173155 B1 19920205**; DE 3431996 A1 19860313; DE 3585347 D1 19920319; US 4707838 A 19871117

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