

Title (en)
ASSEMBLING DEVICE FOR SECTIONS

Publication
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Application
EP 89402456 A 19890908

Priority
FR 8811987 A 19880914

Abstract (en)
[origin: US5039220A] The invention relates to an optical fiber measuring device of the type in which variation of a measured parameter causes a difference of progression of light waves in the optical fiber. Such a device permits measurement of speed of rotation, or of current and magnetic field. The device includes an electronic device for digitally processing a signal indicative of phase shift of one light wave relative to another, the light waves propagating through a preferably monomode optical fiber in a SAGNAC ring interferometer, modulated by a phase modulator. The electronic device includes an analog-digital converter 11, a digital processing system 12 for generating a processor signal reduced to a frequency of modulation around the optical fiber, a control loop digital filter 13 for supplying a parameter indication signal, a register 14 for receiving the parameter indication signal and supplying a register signal which is a function of the measured parameter, an accumulator 15 for generating a digital feedback signal which is a function of the measured parameter, and a digital-analog converter 16 for generating an analog feedback signal for controlling the phase modulator.

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IPC 8 full level
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Cited by
FR2942827A1; ES2133206A1; WO2010100375A1; WO9217659A1

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EP 0359638 A1 19900321; **EP 0359638 B1 19911113**; DE 68900435 D1 19911219; ES 2028459 T3 19920701; FR 2636381 A1 19900316; FR 2636381 B1 19901102; US 5039220 A 19910813

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