

Title (en)

OPTICAL SYSTEM WITH COHERENT FEEDBACK

Title (de)

OPTISCHES SYSTEM MIT KOHÄRENTEM FEEDBACK

Title (fr)

SYSTÈME OPTIQUE AVEC RÉTROACTION COHÉRENTE

Publication

**EP 1987410 A2 20081105 (EN)**

Application

**EP 06851253 A 20061208**

Priority

- IB 2006004287 W 20061208
- US 74842205 P 20051208

Abstract (en)

[origin: WO2007141598A2] An optical measurement system sensitive to light field amplitude is disclosed. The system uses an interferometer while a feedback loop maintains, at a low level, the light intensity exiting from at least on optical output of the interferometer. Shot noise of a detector placed at the output of the interferometer is thus reduced, enabling high speed and high accuracy measurement without requiring is stronger light source. The measurement system may be used in optical computing.

IPC 8 full level

**G03H 1/10** (2006.01)

CPC (source: EP)

**G06E 3/005** (2013.01)

Citation (search report)

See references of WO 2007141598A2

Designated contracting state (EPC)

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Designated extension state (EPC)

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DOCDB simple family (publication)

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**IB 2006004287 W 20061208**; CN 200680052579 A 20061208; EP 06851253 A 20061208