

Title (en)

LASER VELOCIMETER AND RANGE FINDER USING COHERENT DETECTION

Title (de)

KOHÄRENTE DETEKTION GEBRAUCHENDER LASERGESCHWINDIGKEITS- UND -ENTFERNUNGSMESSER

Title (fr)

VELOCIMETRE ET TELEMETRE LASER UTILISANT UNE DETECTION COHERENTE

Publication

EP 0886788 A1 19981230 (FR)

Application

EP 97909395 A 19971013

Priority

- FR 9701822 W 19971013
- FR 9612493 A 19961014

Abstract (en)

[origin: FR2754605A1] The invention concerns a device for measuring velocity using coherent detection comprising: an active laser medium (10); an input mirror (M1) and a first output mirror (M3), defining, with the laser medium a first resonant cavity, of quality factor Qmax for transmitting a laser beam (4); a second output mirror (M2) defining, with the active laser medium (10) and the input mirror (M1), a second resonant cavity, of quality factor Qmin (<Qmax), for amplifying a measurement signal coming from a target having intercepted the transmitted laser beam (4) by means of the first resonant cavity.

IPC 1-7

G01S 7/481; **G01S 17/58**

IPC 8 full level

G01S 7/481 (2006.01); **G01S 17/58** (2006.01); **G01S 17/34** (2020.01); **H01S 3/00** (2006.01)

CPC (source: EP US)

G01S 7/4812 (2013.01 - EP US); **G01S 17/58** (2013.01 - EP US); **G01S 17/34** (2020.01 - EP US); **H01S 3/00** (2013.01 - EP US)

Citation (search report)

See references of WO 9816844A1

Designated contracting state (EPC)

AT BE DE ES GB IT LU

DOCDB simple family (publication)

FR 2754605 A1 19980417; **FR 2754605 B1 19981030**; EP 0886788 A1 19981230; US 6100516 A 20000808; WO 9816844 A1 19980423

DOCDB simple family (application)

FR 9612493 A 19961014; EP 97909395 A 19971013; FR 9701822 W 19971013; US 7720199 A 19990715