

Title (en)
INTELLIGENT VEHICLE HIGHWAY SYSTEM SENSOR AND METHOD

Title (de)
INTELLIGENTER AUTOBAHNVERKEHRSSENSOR UND VERFAHREN DAZU

Title (fr)
DETECTEUR POUR SYSTEME INTELLIGENT DE REGULATION DE LA CIRCULATION SUR LES AUTOROUTES ET PROCEDE D'UTILISATION

Publication
EP 0823036 A1 19980211 (EN)

Application
EP 95919056 A 19950428

Priority
US 9505714 W 19950428

Abstract (en)
[origin: WO9634252A1] An object sensor (310) and method using pulsed laser range imaging technology is adapted for determining the velocity and three dimensional profile of a vehicle (327) passing the sensor for classifying the type of vehicle for use in Intelligent Vehicle Highway Systems. A pair of scanned laser beams are provided by splitting a continuously pulsed laser beam from a transmitter and an optical receiver determines the presence of a vehicle in a predetermined zone such as a highway weigh station or toll booth. Range, angle and time data are collected and stored for use in determining the speed of the vehicle passing the sensor and its three dimensional profile. Forward and backward scanned beams are provided using alternate embodiments of a rotating mirror and using two transmitters/receivers in another embodiment.

IPC 1-7
G01B 11/24; **G01B 11/00**

IPC 8 full level
G01B 11/24 (2006.01); **G01B 11/25** (2006.01); **G01S 17/42** (2006.01); **G01S 17/88** (2006.01); **G08G 1/015** (2006.01); **G08G 1/04** (2006.01)

CPC (source: EP)
G01B 11/25 (2013.01); **G01S 17/42** (2013.01); **G08G 1/015** (2013.01); **G08G 1/04** (2013.01); **G01S 7/4817** (2013.01)

Cited by
CN111043963A; CN111121628A; US6366298B1

Designated contracting state (EPC)
BE DE ES FR GB IT NL PT

DOCDB simple family (publication)
WO 9634252 A1 19961031; AU 2475895 A 19961118; EP 0823036 A1 19980211; EP 0823036 A4 19990915; JP 2002515116 A 20020521

DOCDB simple family (application)
US 9505714 W 19950428; AU 2475895 A 19950428; EP 95919056 A 19950428; JP 53246696 A 19950428