Title (en)
OPTISCHES SYSTEM ZUR ENTFERNUNGS- UND WINKELMESSUNG

Title (de)
OPTISCHES SYSTEM ZUR ENTFERNUNGS- UND WINKELMESSUNG

Title (fr)
SYSTEME OPTIQUE POUR LA MESURE DE DISTANCES ET D'ANGLES

Publication
EP 1290473 A1 20030312 (DE)

Application
EP 01956431 A 20010509

Priority
• DE 10025258 A 20000522
• EP 0105234 W 20010509

Abstract (en)
[origin: WO0190777A1] The aim of the invention is a determination of the distance and angle between a reference object and at least one target object, located in the field of view and/or the speed of at least one target object in the field of view, with high precision and in a simple manner at low cost. The field of view is thus divided into several target sectors by the optical system, comprising a particular angular section in the horizontal plane and the vertical plane. The measuring unit for recording the recorded values comprises a receiver unit with a number of receiver elements corresponding to the number of target sectors, whereby each receiver element detects the reflected signal from one of the target sectors. A control unit connected in series with the receiver units comprises a number of analytical stages corresponding to the number of receiver elements, whereby each analytical stage evaluates the received signal of a receiver element originating from one target sector. The invention further relates to an optical system for application in driver assist systems in motor vehicles.

IPC 1-7
G01S 17/02; G05D 1/03

IPC 8 full level
G01S 17/931 (2020.01); **G01S 7/481** (2006.01); **G01S 7/487** (2006.01); **G01S 17/42** (2006.01)

CPC (source: EP US)
G01S 7/4811 (2013.01 - EP US); **G01S 7/487** (2013.01 - EP US); **G01S 17/42** (2013.01 - EP US); **G01S 17/931** (2020.01 - EP US)

Citation (search report)
See references of WO 0190777A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 0190777 A1 20011129; DE 10025258 A1 20011206; EP 1290473 A1 20030312; JP 2003534555 A 20031118; US 2003164936 A1 20030904

DOCDB simple family (application)
EP 0105234 W 20010509; DE 10025258 A 20000522; EP 01956431 A 20010509; JP 2001586490 A 20010509; US 29614303 A 20030218