

Title (en)
VEHICLE STEERING AID METHOD AND IMPROVED RELATED DEVICE

Title (de)
VERFAHREN ZUR FAHRZEUGLENKHILFE UND VERBESSERTE ZUGEHÖRIGE VORRICHTUNG

Title (fr)
PROCEDE D'ASSISTANCE A LA CONDUITE D'UN VEHICULE ET DISPOSITIF ASSOCIE AMELIORE

Publication
EP 1922706 A1 20080521 (FR)

Application
EP 06808298 A 20060908

Priority
• FR 2006050860 W 20060908
• FR 0552736 A 20050909

Abstract (en)
[origin: WO2007028932A1] The invention concerns a vehicle steering aid method comprising an object sensing detector, including the following steps which consists in: defining an occupation grid corresponding to discretization into N cells of a field of kinematic parameters of the detected object; and, at each time k, acquiring an observation z_k produced by the sensor and determining a sensor probability modelling the behaviour thereof; calculating for each cell X, a predicted occupation probability providing the probability that the cell X is, at time k, in occupied state having knowledge of a density of estimated probability of occupation of the grid at the preceding time; calculating for each cell X, an estimated probability of occupation providing the sensor probability and the predicted occupation probability; the predicted occupation probability at time k being determined by supposing that a single cell of the grid constitutes, at time k-1, the antecedent of the cell X concerned; evaluating, for each cell X, a collision probability, based on the estimated probability at time k and emitting a signal to avoid the object.

IPC 8 full level
G08G 1/16 (2006.01)

CPC (source: EP KR US)
G08G 1/161 (2013.01 - EP KR US); **G08G 1/164** (2013.01 - EP KR US)

Citation (search report)
See references of WO 2007028932A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2007028932 A1 20070315; AT E422086 T1 20090215; CA 2621980 A1 20070315; CN 101283387 A 20081008; DE 602006005059 D1 20090319; EP 1922706 A1 20080521; EP 1922706 B1 20090128; FR 2890774 A1 20070316; FR 2890774 B1 20071116; JP 2009508199 A 20090226; KR 20080072628 A 20080806; US 2008252433 A1 20081016

DOCDB simple family (application)
FR 2006050860 W 20060908; AT 06808298 T 20060908; CA 2621980 A 20060908; CN 200680037529 A 20060908; DE 602006005059 T 20060908; EP 06808298 A 20060908; FR 0552736 A 20050909; JP 2008529671 A 20060908; KR 20087005831 A 20080310; US 6626506 A 20060908