

Title (en)
OBSTACLE AVOIDANCE ACTION

Title (de)
HINDERNISVERMEIDUNGSWIRKUNG

Title (fr)
ACTION D'ÉVITEMENT D'OBSTACLE

Publication
EP 4052174 A1 20220907 (EN)

Application
EP 20811160 A 20201026

Priority

- US 201916670992 A 20191031
- US 201916671012 A 20191031
- US 2020057336 W 20201026

Abstract (en)
[origin: WO2021086781A1] A vehicle can traverse an environment along a first region and detect an obstacle impeding progress of the vehicle. The vehicle can determine a second region that is adjacent to the first region and associated with a direction of travel opposite the first region. A cost can be determined based on an action (e.g., an oncoming action) to utilize the second region to overtake the obstacle. By comparing the cost to a cost threshold and/or to a cost associated with another action (e.g., a "stay in lane" action), the vehicle can determine a target trajectory that traverses through the second region. The vehicle can traverse the environment based on the target trajectory to avoid, for example, the obstacle in the environment while maintaining a safe distance from the obstacle and/or other entities in the environment.

IPC 8 full level
G06K 9/00 (2022.01)

CPC (source: EP)
B60W 60/0011 (2020.02); **G06V 20/58** (2022.01); **G08G 1/09626** (2013.01); **G08G 1/096716** (2013.01); **G08G 1/096758** (2013.01); **G08G 1/096775** (2013.01); **G08G 1/164** (2013.01); **G08G 1/165** (2013.01); **G08G 1/166** (2013.01); **G08G 1/167** (2013.01)

Citation (search report)
See references of WO 2021086781A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2021086781 A1 20210506; CN 114651286 A 20220621; EP 4052174 A1 20220907; JP 2023500825 A 20230111

DOCDB simple family (application)
US 2020057336 W 20201026; CN 202080077639 A 20201026; EP 20811160 A 20201026; JP 2022525160 A 20201026