

Title (en)
VEHICLE CONTROL ASSEMBLY FOR AUTOMATICALLY CONTROLLING AT LEAST ONE VEHICLE, AND METHOD FOR CONTROLLING SAME

Title (de)
FAHRZEUGSTEUERANORDNUNG ZUR AUTOMATISCHEN STEUERUNG VON MINDESTENS EINEM FAHRZEUG SOWIE VERFAHREN ZU DESSEN STEUERUNG

Title (fr)
AGENCEMENT DE COMMANDE DE VÉHICULES POUR LA COMMANDE AUTOMATIQUE D'AU MOINS UN VÉHICULE AINSI QUE SON PROCÉDÉ DE COMMANDE

Publication
EP 3977162 A1 20220406 (DE)

Application
EP 20726423 A 20200518

Priority
• DE 102019114673 A 20190531
• EP 2020063802 W 20200518

Abstract (en)
[origin: WO2020239493A1] The invention relates to a vehicle control assembly for automatically controlling at least one vehicle (12), comprising a drive device in an enclosed spatial field (2) comprising a number of objects (4, 8, 10, 14, 16), wherein: the enclosed spatial field (2) has at least floor surface portions (66); a navigation system (22) for determining the position of the at least one vehicle (12) is provided in the enclosed spatial field (2); and the vehicle (12) has a vehicle control device (46) for controlling the vehicle (12). The invention is characterised in that a room sensor system (40) comprising at least one 3D sensor assembly (42, 44) is provided in the enclosed spatial field (2), wherein: the room sensor system (40) and the vehicle control device (46) are controllably connected to a room control unit (36); the vehicle (12) or each object (4, 8, 10, 14, 16) or person (20) can be detected by the sensor system starting from a predeterminable size; and at least one two-dimensional safety region (48, 50, 52, 54, 56, 58, 60, 62, 64) is associated, by means of the room control unit (40), with the vehicle (12), each object (4, 8, 10, 14, 16) and each person (20).

IPC 8 full level
G01S 13/86 (2006.01); **G01C 21/20** (2006.01); **G01S 13/89** (2006.01); **G01S 13/931** (2020.01); **G01S 15/86** (2020.01); **G01S 15/89** (2006.01); **G01S 15/931** (2020.01); **G01S 17/86** (2020.01); **G01S 17/89** (2020.01); **G01S 17/931** (2020.01); **G01S 19/39** (2010.01); **G05D 1/00** (2006.01); **G05D 1/02** (2020.01); **G08G 1/16** (2006.01); **H04W 4/33** (2018.01); **H04W 4/44** (2018.01)

CPC (source: EP KR US)
B60W 40/105 (2013.01 - US); **B60W 40/12** (2013.01 - US); **G01S 1/02** (2013.01 - KR); **G01S 5/145** (2013.01 - EP KR); **G01S 13/86** (2013.01 - EP); **G01S 13/867** (2013.01 - EP KR); **G01S 13/89** (2013.01 - EP KR); **G01S 13/931** (2013.01 - EP KR); **G01S 15/89** (2013.01 - KR); **G01S 15/931** (2013.01 - KR); **G01S 17/89** (2013.01 - KR); **G01S 17/931** (2020.01 - KR); **G01S 19/10** (2013.01 - KR); **G05D 1/028** (2024.01 - EP); **G05D 1/0282** (2024.01 - EP); **G08G 1/164** (2013.01 - EP KR); **G08G 1/166** (2013.01 - EP KR); **H04W 4/024** (2018.02 - EP KR); **H04W 4/33** (2018.02 - EP KR); **H04W 4/44** (2018.02 - EP KR); **B60W 2420/403** (2013.01 - US); **B60W 2420/408** (2024.01 - US); **B60W 2510/18** (2013.01 - US); **G01S 1/02** (2013.01 - EP); **G01S 15/86** (2020.01 - EP); **G01S 15/89** (2013.01 - EP); **G01S 15/931** (2013.01 - EP); **G01S 17/86** (2020.01 - EP); **G01S 17/89** (2013.01 - EP); **G01S 17/931** (2020.01 - EP); **G01S 19/10** (2013.01 - EP); **G01S 2201/02** (2019.08 - EP KR); **G01S 2205/02** (2020.05 - EP KR)

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 2020239493 A1 20201203; DE 102019114673 A1 20201203; EP 3977162 A1 20220406; JP 2022535686 A 20220810; KR 20220040432 A 20220330; US 2022219707 A1 20220714

DOCDB simple family (application)
EP 2020063802 W 20200518; DE 102019114673 A 20190531; EP 20726423 A 20200518; JP 2021568219 A 20200518; KR 20217042164 A 20200518; US 202017614568 A 20200518