



ALLNAMES:(EquipmentShare.com INC)



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**1. 787784 SYSTEM AND METHOD FOR AUTONOMOUS OPERATION OF A MACHINE**

NZ - 27.05.2022

Int.Class [G05D 1/02](#) Appl.No 787784 Applicant EQUIPMENTSHARE.COM INC. Inventor SCHLACKS, William, J. IV

A system for controlling movement of an articulated vehicle comprising a front compartment and a rear compartment connected by an articulating joint, comprising: a robotics processing unit configured to generate control data to cause movement of the articulated vehicle between a plurality of waypoints along a planned command path within an autonomous operating zone, wherein the control data for each waypoint is generated by: identifying a plurality of lines including [a] a zero body angle heading line of the articulated vehicle, [b] a front vector line of the front compartment, [c] a rear vector line of the rear compartment, and [d] a waypoint line from the articulated joint to the waypoint; calculating a plurality of angles including [a] a body angle between the front vector line and the rear vector line, [b] a front line-of-sight angle between the front vector line and the waypoint line, [c] a rear line-of-sight angle between the rear vector line and the waypoint line, [d] a zero body angle heading forward, and [e] a zero body angle heading reverse; utilizing the calculated angles to generate the control data for the waypoint; and a controller configured to utilize the control data generated by the robotics processing unit to control operation of the articulated vehicle so that the articulated vehicle travels the planned command path within the autonomous operating zone.

**2. 2022202920 SYSTEM AND METHOD FOR AUTONOMOUS OPERATION OF A MACHINE**

AU - 19.05.2022

Int.Class [G05D 1/02](#) Appl.No 2022202920 Applicant EquipmentShare.com Inc. Inventor Adams, Brian

A system for controlling movement of an articulated vehicle comprising a front compartment and a rear compartment connected by an articulating joint, comprising: a robotics processing unit configured to generate control data to cause movement of the articulated vehicle between a plurality of waypoints along a planned command path within an autonomous operating zone, wherein the control data for each waypoint is generated by: identifying a plurality of lines including [a] a zero body angle heading line of the articulated vehicle, [b] a front vector line of the front compartment, [c] a rear vector line of the rear compartment, and [d] a waypoint line from the articulated joint to the waypoint

**3. 781816 SYSTEM AND METHOD FOR AUTONOMOUS OPERATION OF A MACHINE**

NZ - 05.11.2021

Int.Class [G05D 1/02](#) Appl.No 781816 Applicant EQUIPMENTSHARE.COM INC. Inventor SCHLACKS, William, J. IV

The invention concerns a system for autonomous or semi-autonomous operation of a vehicle, comprising: a machine automation portal [MAP] application configured to be executed on a computing device, wherein the MAP application is configured to enable the computing device to [a] display a map of a work site and [b] provide a graphical user interface that enables a user to [i] define a boundary of an autonomous operating zone on the map, [ii] define a boundary of one or more exclusion zones on the map, and [iii] define a coverage task to be performed by the vehicle including identification of one or both of a task type for the vehicle and one or more task details; and a robotics processing unit configured to [a] receive the boundary of the autonomous operating zone, the boundary of each exclusion zone, and the coverage task from the computing device, [b] generate a planned command path that the vehicle will travel to perform the coverage task within the autonomous operating zone while avoiding each exclusion zone, and [c] control operation of the vehicle so that the vehicle travels the planned command path to perform the coverage task.

**4. 20210343098 METHOD, SYSTEM AND APPARATUS FOR EQUIPMENT MONITORING AND ACCESS CONTROL**

US - 04.11.2021

Int.Class [G07C 9/27](#) Appl.No 17361998 Applicant EQUIPMENTSHARE.COM INC Inventor WILLIAM JOHN SCHLACKS, IV

A method of asset access control includes: storing, at an access control server: an asset record corresponding to a physical asset and containing an asset identifier corresponding to the asset; and an account record corresponding to a user of the physical asset and containing an account identifier; receiving, at the access control server from a client computing device, an authorization request containing the asset identifier and the account identifier; determining, based on a comparison between the asset record and the account record, whether to authorize the request; when the determination is affirmative, transmitting an instruction to a collector device mounted on the physical asset to permit subsequent access to the asset.

**5. 20210343097 METHOD, SYSTEM AND APPARATUS FOR EQUIPMENT MONITORING AND ACCESS CONTROL**

US - 04.11.2021

Int.Class [G07C 9/27](#) Appl.No 17361959 Applicant EQUIPMENTSHARE.COM INC Inventor WILLIAM JOHN SCHLACKS, IV

A method of asset access control includes: storing, at an access control server: an asset record corresponding to a physical asset and containing an asset identifier corresponding to the asset; and an account record corresponding to a user of the physical asset and containing an account identifier; receiving, at the access control server from a client computing device, an authorization request containing the asset identifier and the account identifier; determining, based on a comparison between the asset record and the account record, whether to authorize the request; when the determination is affirmative, transmitting an instruction to a collector device mounted on the physical asset to permit subsequent access to the asset.

**6. 20210343096 METHOD, SYSTEM AND APPARATUS FOR EQUIPMENT MONITORING AND ACCESS CONTROL**

US - 04.11.2021


Int.Class [G07C 9/27](#) Appl.No 17361917 Applicant EQUIPMENTSHARE.COM INC Inventor WILLIAM JOHN SCHLACKS, IV

A method of asset access control includes: storing, at an access control server: an asset record corresponding to a physical asset and containing an asset identifier corresponding to the asset; and an account record corresponding to a user of the physical asset and containing an account identifier; receiving, at the access control server from a client computing device, an authorization request containing the asset identifier and the account identifier; determining,




based on a comparison between the asset record and the account record, whether to authorize the request; when the determination is affirmative, transmitting an instruction to a collector device mounted on the physical asset to permit subsequent access to the asset.

7. [20210327188](#) METHOD, SYSTEM AND APPARATUS FOR EQUIPMENT MONITORING AND ACCESS CONTROL US - 21.10.2021

Int.Class [G07C 9/27](#)  Appl.No 17361793 Applicant EQUIPMENTSHARE.COM INC Inventor WILLIAM JOHN SCHLACKS, IV


A method of asset access control includes: storing, at an access control server: an asset record corresponding to a physical asset and containing an asset identifier corresponding to the asset; and an account record corresponding to a user of the physical asset and containing an account identifier; receiving, at the access control server from a client computing device, an authorization request containing the asset identifier and the account identifier; determining, based on a comparison between the asset record and the account record, whether to authorize the request; when the determination is affirmative, transmitting an instruction to a collector device mounted on the physical asset to permit subsequent access to the asset.

8. [20210325873](#) SYSTEM AND METHOD FOR AUTONOMOUS OPERATION OF A MACHINE US - 21.10.2021

Int.Class [G05D 1/00](#)  Appl.No 17363329 Applicant EQUIPMENTSHARE.COM INC Inventor WILLIAM J. SCHLACKS, IV


A system for autonomous or semi-autonomous operation of a vehicle is disclosed. The system includes a machine automation portal (MAP) application configured to enable a computing device to (a) display a map of a work site and (b) provide a graphical user interface that enables a user to (i) define a boundary of an autonomous operating zone on the map and (ii) define a boundary of one or more exclusion zones. The system also includes a robotics processing unit configured to (a) receive the boundary of the autonomous operating zone and the boundary of each exclusion zone from the computing device, (b) generate a planned command path that the vehicle will travel to perform a task within the autonomous operating zone while avoiding each exclusion zone, and (c) control operation of the vehicle so that the vehicle travels the planned command path to perform the task.

9. [20210325872](#) SYSTEM AND METHOD FOR AUTONOMOUS OPERATION OF A MACHINE US - 21.10.2021

Int.Class [G05D 1/00](#)  Appl.No 17363116 Applicant EQUIPMENTSHARE.COM INC Inventor WILLIAM J. SCHLACKS, IV

A system for autonomous or semi-autonomous operation of a vehicle is disclosed. The system includes a machine automation portal (MAP) application configured to enable a computing device to (a) display a map of a work site and (b) provide a graphical user interface that enables a user to (i) define a boundary of an autonomous operating zone on the map and (ii) define a boundary of one or more exclusion zones. The system also includes a robotics processing unit configured to (a) receive the boundary of the autonomous operating zone and the boundary of each exclusion zone from the computing device, (b) generate a planned command path that the vehicle will travel to perform a task within the autonomous operating zone while avoiding each exclusion zone, and (c) control operation of the vehicle so that the vehicle travels the planned command path to perform the task.

10. [20210325875](#) SYSTEM AND METHOD FOR AUTONOMOUS OPERATION OF A MACHINE US - 21.10.2021

Int.Class [G05D 1/00](#)  Appl.No 17363413 Applicant EQUIPMENTSHARE.COM INC Inventor WILLIAM J. SCHLACKS, IV

A system for autonomous or semi-autonomous operation of a vehicle is disclosed. The system includes a machine automation portal (MAP) application configured to enable a computing device to (a) display a map of a work site and (b) provide a graphical user interface that enables a user to (i) define a boundary of an autonomous operating zone on the map and (ii) define a boundary of one or more exclusion zones. The system also includes a robotics processing unit configured to (a) receive the boundary of the autonomous operating zone and the boundary of each exclusion zone from the computing device, (b) generate a planned command path that the vehicle will travel to perform a task within the autonomous operating zone while avoiding each exclusion zone, and (c) control operation of the vehicle so that the vehicle travels the planned command path to perform the task.