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Machine translation

1. [WO/2019/183163](#) ORIENTATION INDEPENDENT ANTENNAS WITH DIRECTION FINDING FOR REMOTE KEYLESS ENTRY WO - 26.09.2019

Int.Class [H04W 4/021](#) Appl.No PCT/US2019/023078 Applicant ANTENUM LLC Inventor APOSTOLOS, John T.

An improved remote keyless entry (RKE) system for a vehicle to provide enhanced capabilities to a user. The improved RKE system may utilize directional antennas in the vehicle and in the FOB. Directional antennas may utilize devices equipped with orientation-independent antennas to determine the location. The system can exist in many different customizable configurations, sometimes utilizing orientation-independent antennas embedded in the vehicle or the FOB. The devices, systems and methods described herein may be used for an RKE in personal or commercial vehicles.

2. [20200106306](#) FM SCAVENGING FOR WIRELESS CHARGING US - 02.04.2020

Int.Class [H02J 50/20](#) Appl.No 16584136 Applicant Antenum, Inc. Inventor James D. Logan

An apparatus, system, and method directed to the charging of electronic devices, and in particular to the wireless charging of battery enabled devices using FM band signals

3. [20190346531](#) ORIENTATION INDEPENDENT ANTENNAS WITH DIRECTION FINDING FOR REMOTE KEYLESS ENTRY US - 14.11.2019

Int.Class [G01S 3/18](#) Appl.No 16358900 Applicant Antenum LLC Inventor John T. Apostolos

An improved remote keyless entry (RKE) system for a vehicle to provide enhanced capabilities to a user. The improved RKE system may utilize directional antennas in the vehicle and in the FOB. Directional antennas may utilize devices equipped with orientation-independent antennas to determine the location. The system can exist in many different customizable configurations, sometimes utilizing orientation-independent antennas embedded in the vehicle or the FOB. The devices, systems and methods described herein may be used for an RKE in personal or commercial vehicles.

4. [20180287671](#) DIRECTIONAL MIMO ANTENNA US - 04.10.2018

Int.Class [H04B 7/04](#) Appl.No 15903115 Applicant Antenum, Inc. Inventor John T. Apostolos

A Multiple Input Multiple Output (MIMO) antenna system and operating method that provides spatial- and temporal multiplexing with polarization independent operating modes.

5. [20190348754](#) SMART ANTENNA FOR IN-VEHICLE APPLICATIONS THAT CAN BE INTEGRATED WITH TCU AND OTHER ELECTRONICS US - 14.11.2019

Int.Class [H01Q 1/32](#) Appl.No 16179069 Applicant Antenum, LLC Inventor John T. Apostolos

A low profile, conformal antenna assembly provides wide bandwidth, orientation dependent and directional operation via volumetric radiating elements that are disposed over a cavity. The volumetric antenna elements may be further controlled by embedded inductive or capacitive components and/or surrounded by frequency-selective components. An optional AM/FM radiating structure is provided by a conductive wire helix disposed within the cavity. The antenna assembly may be integrated with system and control, conversion, amplification and/or processing electronics in a single enclosure or tightly coupled enclosure space. Integrating the antenna subassembly with an electronics subassembly in the same enclosure eliminates the requirement for discrete RF signal connections reduces associated costs, and avoids signal losses in the connections to multiple vehicle systems. The antenna can be mounted to the inside surface of glass in a vehicle.

6. [WO/2020/006342](#) LOW PROFILE ANTENNA - CONFORMAL ONE DIMENSIONAL WO - 02.01.2020

Int.Class [H01Q 9/04](#) Appl.No PCT/US2019/039705 Applicant ANTENUM LLC Inventor APOSTOLOS, John, T.

An antenna array consists of multiple sub-arrays of planar, rectangular conductive patches disposed over a cavity to provide a volumetric antenna array. Each sub-array consist of multiple patch elements, arranged typically in a square or rectangular pattern. Multiple sub-arrays are further arranged along a one-dimensional row, to provide one or more unit cells. Adjacent sub-arrays in a row may be oriented at 45 degrees with respect to one another. The assembly provides a wide bandwidth, orientation dependent, directional antenna via volumetric radiating elements that can be conformal to exterior surface(s) of a vehicle such as a roof or trunk or roll bar of a passenger car.

7. [WO/2020/033846](#) VEHICLE ROOF ANTENNA

WO - 13.02.2020

Int.Class [H01Q 1/32](#) Appl.No PCT/US2019/045934 Applicant ANTENUM LLC Inventor APOSTOLOS, John T.

A suite of antennas integrated into a vehicle roll bar adjacent to a glass roof that allows for the sending and receiving of signals, which replaces antennas that are commonly placed on the roof of the vehicle, side view mirrors, or near the rear-view mirror at the front on the vehicle.

8. [20190393589](#) LOW PROFILE ANTENNA - CONFORMAL ONE DIMENSIONAL

US - 26.12.2019

Int.Class [H01Q 1/32](#) Appl.No 16456281 Applicant Antenum LLC Inventor John T. Apostolos

An antenna array consists of multiple sub-arrays of planar, rectangular conductive patches disposed over a cavity to provide a volumetric antenna array. Each sub-array consist of multiple patch elements, arranged typically in a square or rectangular pattern. Multiple sub-arrays are further arranged along a one-dimensional row, to provide one or more unit cells. Adjacent sub-arrays in a row may be oriented at 45 degrees with respect to one another. The assembly provides a wide bandwidth, orientation dependent, directional antenna via volumetric radiating elements that can be conformal to exterior surface(s) of a vehicle such as a roof or trunk or roll bar of a passenger car.

9. [WO/2019/090049](#) SMART ANTENNA FOR IN-VEHICLE APPLICATIONS THAT CAN BE INTEGRATED WITH TCU AND OTHER ELECTRONICS

WO - 09.05.2019

Int.Class [H01Q 1/32](#) Appl.No PCT/US2018/058911 Applicant ANTENUM, LLC Inventor APOSTOLOS, John T.

A low profile, conformal antenna assembly provides wide bandwidth, orientation dependent and directional operation via volumetric radiating elements that are disposed over a cavity. The volumetric antenna elements may be further controlled by embedded inductive or capacitive components and/or surrounded by frequency-selective components. An optional AM/FM radiating structure is provided by a conductive wire helix disposed within the cavity. The antenna assembly may be integrated with system and control, conversion, amplification and/or processing electronics in a single enclosure or tightly coupled enclosure space. Integrating the antenna subassembly with an electronics subassembly in the same enclosure eliminates the requirement for discrete RF signal connections, reduces associated costs, and avoids signal losses in the connections to multiple vehicle systems. The antenna can be mounted to the inside surface of glass in a vehicle.

10. [WO/2020/069161](#) FM SCAVENGING FOR WIRELESS CHARGING

WO - 02.04.2020

Int.Class [B60C 23/04](#) Appl.No PCT/US2019/053203 Applicant ANTENUM, INC. Inventor APOSTOLOS, John, T.

An apparatus, system, and method directed to the charging of electronic devices, and in particular to the wireless charging of battery enabled devices using FM band signals

11. [20190381902](#) ROAD CHARGING FOR ELECTRIC VEHICLE IN MOTION

US - 19.12.2019

Int.Class [B60L 53/12](#) Appl.No 16358770 Applicant Antenum LLC Inventor John T. Apostolos

A loop antenna in an electric vehicle receives energy wirelessly from a source external to the vehicle, such as from a series of Radio Frequency (RF) emitters embedded in a road surface. The use of single turn, RF loop antennas to both transmit and receive power greatly reduces the need to align the vehicle with the charging equipment.

12. [WO/2019/183157](#) ROAD CHARGING FOR ELECTRIC VEHICLE IN MOTION

WO - 26.09.2019

Int.Class [H02J 50/20](#) Appl.No PCT/US2019/023058 Applicant ANTENUM LLC Inventor APOSTOLOS, John T.

A loop antenna in an electric vehicle receives energy wirelessly from a source external to the vehicle, such as from a series of Radio Frequency (RF) emitters embedded in a road surface. The use of single turn, RF loop antennas to both transmit and receive power greatly reduces the need to align the vehicle with the charging equipment.

13. [20200052392](#) VEHICLE ROOF ANTENNA

US - 13.02.2020

Int.Class [H01Q 1/32](#) Appl.No 16536880 Applicant Antenum LLC Inventor James D. Logan

A suite of antennas integrated into a vehicle roll bar adjacent to a glass roof that allows for the sending and receiving of signals, which replaces antennas that are commonly placed on the roof of the vehicle, side view mirrors, or near the rear-view mirror at the front on the vehicle.

14. [20200007218](#) TAG WITH ORIENTATION INDEPENDENT ANTENNA

US - 02.01.2020

Int.Class [H04B 7/06](#) Appl.No 16440059 Applicant Antenum LLC Inventor James D. Logan

A tag incorporated with a directional antenna. Directional antennas may utilize devices equipped with orientation-independent antennas to determine the location of radio frequency signals emitted by other objects. The system can exist in many different customizable configurations, sometimes utilizing orientation-independent antennas embedded in the tag.

15. [20200137590](#) CONSIDERATIONS IN WIRELESS NETWORKS THAT SUPPORT BEAM STEERING MOBILE DEVICES

US - 30.04.2020

Int.Class [H04W 16/28](#) Appl.No 16666690 Applicant Antenum, Inc. Inventor John T. Apostolos

A wireless network accommodates mobile devices that provide directive radiation over multiple frequencies, multiple polarizations, and/or operate in modes that reduce unnecessary radiation into a nearby human body.

16. **WO/2020/092285** CONSIDERATIONS IN WIRELESS NETWORKS THAT SUPPORT BEAM STEERING MOBILE DEVICES WO - 07.05.2020

Int.Class H01Q 3/00 Appl.No PCT/US2019/058430 Applicant ANTENUM, INC. Inventor APOSTOLOS, John T.

A wireless network accommodates mobile devices that provide directive radiation over multiple frequencies, multiple polarizations, and/or operate in modes that reduce unnecessary radiation into a nearby human body.

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