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Website: <https://www.usaharness.com>

MEDIA CONTACT: Rick Ashley
EMAIL: rashley@octanevtm.com
Octane^{VTM} (317) 920-6105

MEDIA ADVISORY

USA Harness Granted New Patent On Its Ultra-High-Performance USA-PLUS Modular Connection System

Proven to perform at three times the industry standard, the patented USA-PLUS Modular Connection System keeps USA Harness at the forefront of vehicle power delivery.

WINNSBORO, Texas, USA (Dec. 11, 2019) — [USA Harness, Inc.](#), a leader in trailer harnesses and electronic control systems for the global transportation industry, announced that it has recently been granted a patent for its new USA-PLUS Modular Connection System. The new patent supersedes a previous patent the company held for an earlier iteration of the system, and improves on its O-ring-style seal and secondary lock pin design.

The new USA-PLUS Modular Connection System features a design variation that increases the engagement integrity between the system's integral O-ring and the corresponding groove of its mated connection. A unique lock pin of contrasting color helps inspectors identify complete connection mating. The lock pin assures precision alignment of all components and a firm, complete, watertight union that employs dielectric grease as a sealing agent and a barrier to moisture, dirt and corrosion.

The company's USA-PLUS Sealed Modular Wiring Harness Systems are simple for OEMs to assemble, and use the same USA-PLUS Modular Connection System throughout. All of the connectors are constructed using a durable virgin vinyl molding compound. Even novice assembly workers can make flawless connections quickly and repeatedly, because the system's keyed pin orientation guides a precision interface every time. Harness ends can be constructed to mate with any incandescent or LED lamp from any major manufacturer.

"Since its 1996 introduction, the USA-PLUS Sealed Modular Wiring Harness System has been considered the gold standard for its engineered durability, sealing efficacy and operational robustness," said Brett Miller, vice president of engineering for USA Harness. "Laboratory testing of the USA-PLUS Modular Connection System demonstrates that it can stand up to at least three times the cyclical testing standards recommended by the Society of Automotive Engineers (SAE)."

Salt spray exposure tests following American Section of the International Association for Testing and Materials (ASTM) B117 standards, showed that the USA-PLUS Modular Connection System was able to remain fully operational and unimpeded after three times the testing exposure period recommended by SAE. The testing was performed by an independent lab and was terminated prior to any indication of system failure.

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The USA-PLUS Modular Connection System is offered in a variety of styles that will accommodate virtually any modular plug-together application. The USA family of connectors includes 2-way, 4-way, 6-way and 7-way configurations. A 10-way system has also been developed for use in demanding military applications and for electrical systems with auxiliary circuitry. All harness systems with the USA-PLUS Modular Connection System come with an industry-leading five-year warranty.

“People say we have the lowest warranty claims rate in the industry,” Miller said. “And with the introduction of our new patented USA-PLUS Modular Connection System, those claim rates are about to drop even further.”

To access high-resolution images of the USA-PLUS Modular Connection System, please visit: <https://usaharness.com/gallery>

To view a video of the USA-PLUS Modular Connection System, please visit: <https://youtu.be/OUeljQYUTIo>

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About USA Harness

Founded in 1991 in Winnsboro, Texas, USA Harness manufactures premium, custom electrical wiring harnesses for commercial vehicle applications including: heavy duty dry vans, tank trailers, car haulers, refrigerated trailers, truck body/bed, heavy duty off-highway vehicles, armored couriers, light- to medium-duty trailers and specialized vocational equipment. All USA Harness wiring systems are custom designed to fit specific applications, and meet or exceed all applicable industry standards. The company’s patented USA-PLUS system provides the most advanced molded harness connections available in the market, accommodating up to ten separate circuits in one system (US Patents 6,319,039 and 10,014,631). The USA Harness facilities are located in northeast Texas, where the company’s product development, manufacturing and engineering support are centered; key capabilities include tool and die making, plastic injection molding, terminal application, ultrasonic splicing, and digital testing. Learn more at <https://www.usaharness.com/>.

USA-PLUS is a trademark of USA Harness, Inc.