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AYRO Receives Second Utility Patent on Vehicle Control Systems That Reduce Environmental Impact

Awarded utility patent is the third patent issued to AYRO this year and focused specifically on environmental impact

ROUND ROCK, TX / ACCESSWIRE / May 11, 2023 /AYRO, Inc. (NASDAQ:AYRO) ("AYRO" or the "Company"), a designer and manufacturer of electric, purpose-built delivery vehicles and solutions for micro distribution, micromobility and last-mile delivery, announces that it has been issued U.S. Patent No. 11,643,068 from the U.S. Patent and Trademark Office for "Electric Vehicle Control Systems, Apparatus and Methods."



The utility patent represents another milestone for AYRO as the Company continues to develop new processes and innovations as part of the organization's SchlägerNull™ approach.

"The AYRO team is developing technologies we believe have never before been seen in any vehicle, much less a low-speed electric vehicle (LSEV)," noted Tom Wittenschlaeger, CEO of AYRO. "Our vehicles utilize what we refer to as the SchlägerNull™ approach in all of their designs. This approach is a philosophy and design discipline focused on enabling our vehicles to exist, traverse or operate in a physical space without altering it or leaving minimal trace of their presence upon departure."

The awarded utility patent titled "Electric Vehicle Control Systems, Apparatus and Methods" is for the invention of vehicle control systems including sensors and software that adjust the operational profile of the vehicle using localized vehicle context to reduce environmental

impact. This includes utilization of location data as well as local environment data including, but not limited to weather, precipitation, friction, temperature, time, audio and more. Practically speaking, the control system generates and executes a set of wheel instructions to enable at least one controllable motor to cause the wheels to take corresponding actions to adjust for the environment, such as tire pressure changes or torque profile adjustments to prevent terrain damage.

"In our development of the 2023 AYRO Vanish, we've worked to create a vehicle that is not only utilitarian in nature, but also sustainable," said Mark Luckevich, chief engineer at AYRO. "Sustainability is really about balance which requires dynamic adjustments. We are developing technologies that not only allow the vehicle to be built in a sustainable fashion, but also allow the vehicle to adjust to its local area to leave little to no impact on the environment."

"Protecting our intellectual property and creating sustainable enterprise value is a complementary adjunct to the vehicle design process," added Wittenschlaeger. "We believe the vehicles and associated ecosystem we are creating, starting with the 2023 AYRO Vanish utility LSEV, breathe new life into a market that we feel has become quite stagnant. We are striving to create a new path for LSEVs and the future of micro mobility."

As defined by the U.S. Patent and Trademark Office, a utility patent is issued for the invention of a "new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof" and gives its owner "the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States or importing the invention into the United States" for a period of up to 20 years.

About AYRO

AYRO designs and produces zero emission vehicles and systems that redefine the very nature of sustainability. Our goal is to craft solutions in a way that leaves minimal impact on not only carbon emissions, but the space itself. From tire tread, fuel cells, sound and even discordant visuals, we apply engineering and artistry to every element of our product mix. The AYRO Vanish is the first in this new product roadmap. For more information, visit ayro.com.

Forward-Looking Statements

This press release may contain forward-looking statements. These forward-looking statements involve known and unknown risks, uncertainties and other factors which may cause actual results, performance or achievements to be materially different from any expected future results, performance, or achievements. Words such as "anticipate," "believe," "could," "estimate," "intend," "expect," "may," "plan," "will," "would" and their opposites and similar expressions are intended to identify forward-looking statements and include the development and launch of the AYRO Vanish. Such forward-looking statements are based on the beliefs of management as well as assumptions made by and information currently available to management. Important factors that could cause actual results to differ materially from those indicated by such forward-looking statements include, without limitation: AYRO's success depends on its ability to complete the development of and successfully introduce new products; AYRO may experience delays in the development and introduction of new products; the ability of AYRO's suppliers to deliver parts and assemble

vehicles; the ability of the purchaser to terminate or reduce purchase orders; AYRO has a history of losses and has never been profitable, and AYRO expects to incur additional losses in the future and may never be profitable; AYRO's failure to meet the continued listing requirements of The Nasdaq Capital Market could result in a delisting of its common stock; AYRO may be unable to replace lost manufacturing capacity on a timely and cost-effective basis, which could adversely impact its operations and ability to meet delivery timelines; the impact of public health epidemics, including the COVID-19 pandemic; the market for AYRO's products is developing and may not develop as expected and AYRO, accordingly, may never meet its targeted production and sales goals; AYRO's limited operating history makes evaluating its business and future prospects difficult and may increase the risk of any investment in its securities; AYRO may experience lower-than-anticipated market acceptance of its vehicles; developments in alternative technologies or improvements in the internal combustion engine may have a materially adverse effect on the demand for AYRO's electric vehicles; the markets in which AYRO operates are highly competitive, and AYRO may not be successful in competing in these industries; AYRO may become subject to product liability claims, which could harm AYRO's financial condition and liquidity if AYRO is not able to successfully defend or insure against such claims; increases in costs, disruption of supply or shortage of raw materials, in particular lithium-ion cells, chipsets and displays, could harm AYRO's business; AYRO may be required to raise additional capital to fund its operations, and such capital raising may be costly or difficult to obtain and could dilute AYRO stockholders' ownership interests, and AYRO's long term capital requirements are subject to numerous risks; AYRO may fail to comply with evolving environmental and safety laws and regulations; and AYRO is subject to governmental export and import controls that could impair AYRO's ability to compete in international market due to licensing requirements and subject AYRO to liability if AYRO is not in compliance with applicable laws. A discussion of these and other factors with respect to AYRO is set forth in our most recent Annual Report on Form 10-K and subsequent reports on Form 10-Q. Forward-looking statements speak only as of the date they are made and AYRO disclaims any intention or obligation to revise any forward-looking statements, whether as a result of new information, future events or otherwise.

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