Arx Pax Hover Engines Rev up Transportation Market

Industry's most cost-effective and scalable magnetic levitation (maglev) technology to propel transportation innovation

Los Gatos, Calif., Jan. 21, 2016 — Arx Pax, creator of Magnetic Field Architecture (MFA™) and the newly patented Hover Engine™, today announced that its technology will be available for use in new transportation systems.

Though transportation is a new market for Arx Pax's technology, it is already being eagerly embraced by industry thought leaders and will be used to develop cutting-edge prototypes by participants in the SpaceX Hyperloop Pod Competition.

"It's an exciting time to be innovating in the transportation arena as our global community of makers and thinkers discover new and better ways to move people and cargo," said Greg Henderson, co-founder and CEO at Arx Pax. "Like the internet moves information today, we envision our Hover Engine systems to move physical objects in the same kind of fluid networks. While there are other ways to hover, nothing else can do what our systems can. MFA provides the safest, simplest, most feature rich, and cost-effective maglev technology in the world."

Arx Pax is one of five companies chosen to showcase their technology during the Hyperloop Competition Design Weekend at Texas A&M University on January 29-30. Click here to see a video of a pod prototype or get more information about SpaceX's Pod competition.

Arx Pax Hover Engines provide a multitude of benefits and differentiation relative to previous maglev technologies. Specifically:

-Hover Engines provide one integrated system for propulsion, braking, guidance and levitation unlike existing maglev that requires separate systems for each of these functions.

-Vehicles designed using Hover Engines, including trains and pods, can move omni-directionally, something not possible with the wheel and axel. MFA vehicles can go forward, backward and sideways while simultaneously rotating or pivoting in place.

-With MFA, there is no physical contact with the ground, so friction does not exist. MFA reduces the complexity and lowers the cost of tracked systems because all it needs is a passive metal surface over which to levitate. That surface can be curved or flat, and of any width; this enables trains to pass one another like cars do today. (Other maglev systems require extremely complex and expensive active track with continuous active sensing and active adjusting that prohibits trains from operating in close proximity or sharing rail systems.)

-Hover Engine enabled vehicles can bank in a curve to avoid any sideways g-forces that cause passenger discomfort. This allows transports to travel faster and allows for less expensive routing of travel by curving around obstacles instead of having to tunnel through them.

With respect to solving the "last mile challenge," vehicles designed using MFA—including train pods and personal transportation devices—can share infrastructure. That means not just getting efficiently from point A to B but then from B to your final destination. MFA finally makes levitating transport both affordable and practical, by providing a quantum leap in energy savings, reducing travel times and increasing convenience.

About Arx Pax

Arx Pax Labs, Inc. is the Silicon Valley technology company that invented the patented Magnetic Field Architecture (MFA) technology, a more efficient way to transmit electromagnetic energy. Strategic applications of MFA technology and the use of its hover engines include structural isolation, recreation and entertainment, industrial automation and transportation. MFA will fundamentally change the way people work, play and live. The initial proof of concept for MFA was the Hendo Hoverboard that launched in October 2014. Patent No: US 9,126,487 B2.[AF1]

###