US 20220386441A1

(19) United States

(12) Patent Application Publication (10) Pub. No.: US 2022/0386441 A1

von Goble (43) Pub. Date: Dec. 1, 2022

(54) **DEVICE FOR CONTAINING AND ACCELERATING PLASMA WITHIN A MIXER/COMPRESSOR SYSTEM BY WAY OF MAGNETIC FORCES AND THE COANDA EFFECT**

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(21) Appl. No.: **17/334,840**

(22) Filed: **May 31, 2021**

Publication Classification

(51) **Int. Cl.**
H05H 1/00 (2006.01)

(52) **U.S. Cl.**
CPC ***H05H 1/01*** (2021.05)

(57) **ABSTRACT**

A device for the containment, mixing, acceleration, and controlled release of fast-flowing ionized fluids or plasma, consisting of a grooved sphere with interior and surface electromagnets of opposing polarity and variable power output. The grooves within the device allow for extremely high rates of ionized fluid/plasma flow and mixing of either the same or differing compositions for each groove, depending upon the materials injected into them, and for the release of accelerated ionized fluid/plasma instantaneously and simultaneously (with all grooves depressurizing synchronously and unidirectionally), gradually and simultaneously (with all grooves gradually depressurizing at the same or different rates), or non-simultaneously and gradually or instantaneously (with the grooves depressurizing at different rates and times). The invention also provides a means of slowing ionized fluid/plasma flow within the grooves by way of the magnetohydrodynamic effect, which offers the potential for partial power recovery.