
List of IP currently held secret by Freedom Motors, followed by existing U.S. Patents granted to inventor Dr. Paul S. Moller, or assigned to Freedom Motors and/or Moller International (does not include foreign patent grants).



Patent to be Filed

“A specific combination of engine displacement, engine RPM and brake mean effective pressure (BMEP) that allows the Rotapower engine to operate on the Otto cycle while using diesel fuel”



Patent to be Filed

“A much improved fuel/air charge pathway through the rotor developed to improve cooling of the rotor and vaporization of the charge”



Patent to be Filed

“A compound version of the rotary engine where two rotors are able to function in series rather than parallel”



Patent to be Filed

“Unique one-way valve to allow the charge to flow in one direction while not allowing it to flow in the reverse direction”



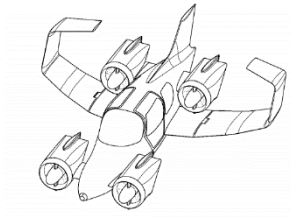
Patent to be Filed

“A rotor cooling arrangement employing a phase change of a liquid that allows almost unlimited cooling of the rotor”



Patent to be Filed

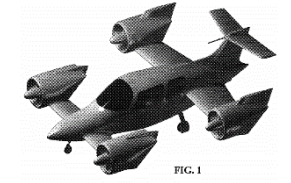
“Developed a seal and rotor housing coating material combination that along with a proprietary rotor housing wear surface finish, allowed the wear surface and seal life to exceed a documented 20,000 hours”



Patent D736,140

“Vertical takeoff and landing vehicle” - Aug 11, 2015

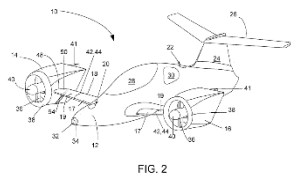
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Patent D498,201

“Vertical takeoff and landing aircraft” - Nov 4, 2004

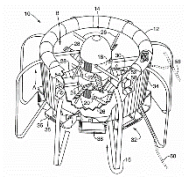
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Patent 6,808,140

“Vertical take-off and landing vehicles” - Oct 26, 2004

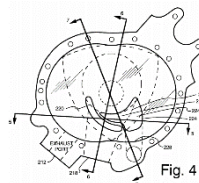
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Patent 6,450,445

“Stabilizing control apparatus for robotic or remotely controlled flying platform” - Sept 17, 2002

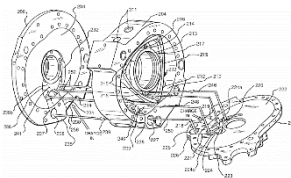
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Patent 6,325,603

“Charge cooled rotary engine” - Dec 4, 2001

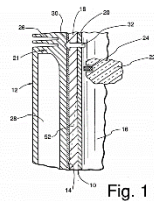
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Patent 6,164,942

“Rotary engine having enhanced charge cooling and lubrication” - Dec 26, 2000

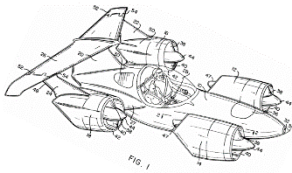
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Patent 5,413,877

“Combination thermal barrier and wear coating for internal combustion engines” - May 9, 1995

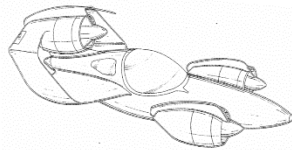
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Patent 5,115,996

“VTOL aircraft” - May 26, 1992

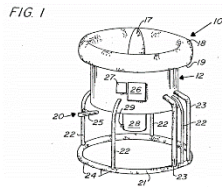
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Patent D312,068

“Vertical take-off and landing aircraft” - Nov 13, 1990

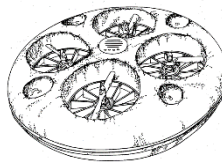
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Patent 4,795,111

“Robotic or remotely controlled flying platform” - Jan 3, 1989

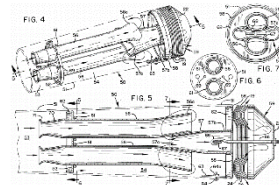
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Patent D292,194

“Airborne Vehicle” - Oct 6, 1987

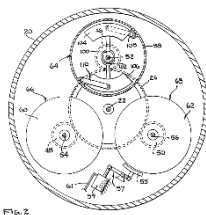
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Patent 4,424,882

“Resonator type mufflers” - Jan 10, 1984

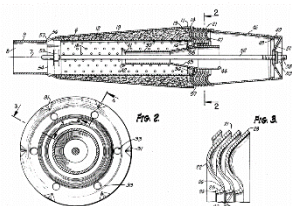
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Patent 4,307,629

“Torque converter” - Dec 29, 1981

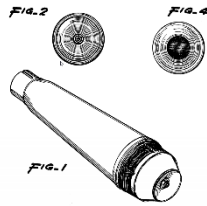
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Patent 4,113,051

“Engine muffler and spark arrester” - Sept 12, 1978

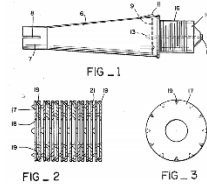
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Patent D246,038

“Combined muffler and spark arrestor” - Oct 11, 1977

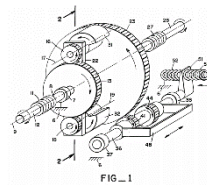
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Patent 3,987,867

“Spark arresting muffler for engines” - Oct 26, 1976

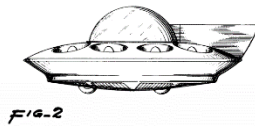
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Patent 3,960,036

“Torque Converter” - June 1, 1976

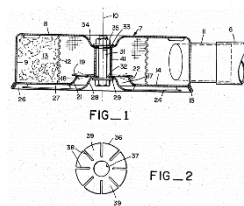
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Patent D238,938

“Aircraft” - Feb 24, 1976

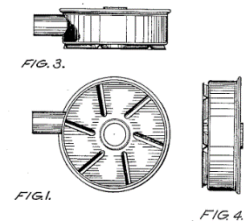
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Patent 3,854,549

“Reed Muffler” - Dec 17, 1974

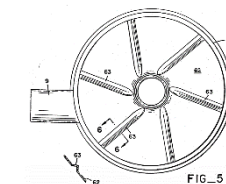
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Patent D226,184

“Combination muffler and spark arrestor for internal combustion engines” - Jan 30, 1973

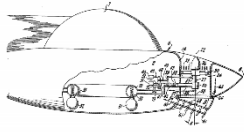
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Patent 3,672,773

“Exhaust Muffler and Spark Arrestor” - June 27, 1972

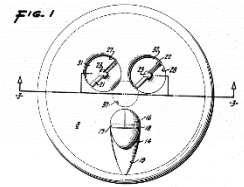
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Patent 3,614,030

"Aircraft" - Oct 19, 1971

<http://pdfpiw.uspto.gov/.piw?PageNum=0&docid=03614030>



Patent 3,410,507

"Aircraft" - Nov 12, 1968

<http://pdfpiw.uspto.gov/.piw?PageNum=0&docid=03410507>