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Transmedium drone patent family

Six draft applications covering the dronefactory24.uk air-and-water VTOL platform: medium-keyed star-delta propulsion, a seawater auxiliary range-extender, transmedium hull integration, a modular payload bay, natural-language mission programming, and a lawful maritime search-and-rescue support swarm method.

[Download UK IPO bundle \(.zip\)](#)[Download Ireland \(IPOI\) bundle \(.zip\)](#)[Full portfolio \(PDF\)](#)

DF24-01

Brushless Motor Winding Termination Switchable Between Star and Delta Configurations Automatically Keyed to a Detected Operating Medium for a Transmedium Air-and-Water Vehicle

Promising · 74.2/100

12 claims

Electric propulsion control for transmedium unmanned vehicles, specifically automatic reconfiguration of a brushless DC motor winding termination as a function of the surrounding fluid medium.

DF24-02

Seawater-Activated Galvanic Auxiliary Cell with Sacrificial Magnesium Anode for Trickle-Charging an Avionics and Sensor Bus of a Submersible Drone Without Powering Flight

Marginal · 62.2/100

12 claims

Auxiliary electrical power generation for submersible unmanned vehicles using a seawater-activated galvanic cell to extend avionics and sensor endurance.

DF24-03

Integrated Submersible Hull and Folding Tilting Multirotor Airframe with Ballast Management for Controlled Water Entry, Submerged Transit, and Water Exit to Flight

Marginal · 64.3/100

12 claims

Airframe and hull architecture for transmedium unmanned vehicles that transition between multirotor

DF24-04

Tool-less Modular Payload Bay for a Transmedium Drone Accepting Interchangeable Flotation, Sampling, and Authority-Limited Tow Modules

Marginal · 63.9/100

12 claims

Interchangeable payload systems for transmedium unmanned vehicles, with module identification and safety-scoped operating envelopes.

flight and submerged transit.

DF24-05

Natural-Language Mission-Programming Adapter Compiling Operator Briefs into Validated Transmedium Mission Parameters with Medium-Transition Safety Interlocks and Human-Authority Hand-off

Marginal · 59.9/100

12 claims

Mission planning and validation for transmedium unmanned vehicles, translating natural-language operator briefs into checked flight-controller parameters with safety interlocks.

DF24-06

Coordinated Transmedium Swarm Method for Maritime Search-and-Rescue Support with an Interlock Prohibiting Autonomous Interception or Tow of Occupied Craft and Hand-off to Crewed Authorities

Marginal · 58.5/100

12 claims

Coordination of multiple transmedium unmanned vehicles for maritime search-and-rescue support, with legal and safety interlocks preserving human authority over occupied craft.

DF24-07

Distributed Swarm Flotation and Keep-Afloat Stabilisation Method and System in which Buoyancy-Capable Drones Attach Around a Hull and Hold a Swamped Small Vessel Level and Afloat Until a Crewed Rescue Arrives

Marginal · 64.4/100

12 claims

Maritime life-safety support by unmanned vehicles, specifically a coordinated swarm of buoyancy-capable drones that distribute around the hull of a swamped or unstable small vessel and apply righting support to keep it level and afloat pending crewed rescue.

DF24-08

Printed-Circuit-Board Structural Airframe for a Lightweight Sealed Transmedium Drone in which Rigid or Semi-Rigid Boards Serve as Load-Bearing Members and Carry Power Electronics and Signal Routing

Promising · 65.7/100

12 claims

Airframe and electronics integration for small transmedium unmanned vehicles, specifically the use of printed circuit boards as load-bearing structural members that also carry power electronics and signal routing for a sealed air-and-water craft.

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