

The Bladeless Radial Plasma Heat Turbine

Hero's Engine is well-known, although more or less lacking in practical utility, at least in its original form. Likewise, tip jet systems and Pelton wheels have been studied and employed for some time.

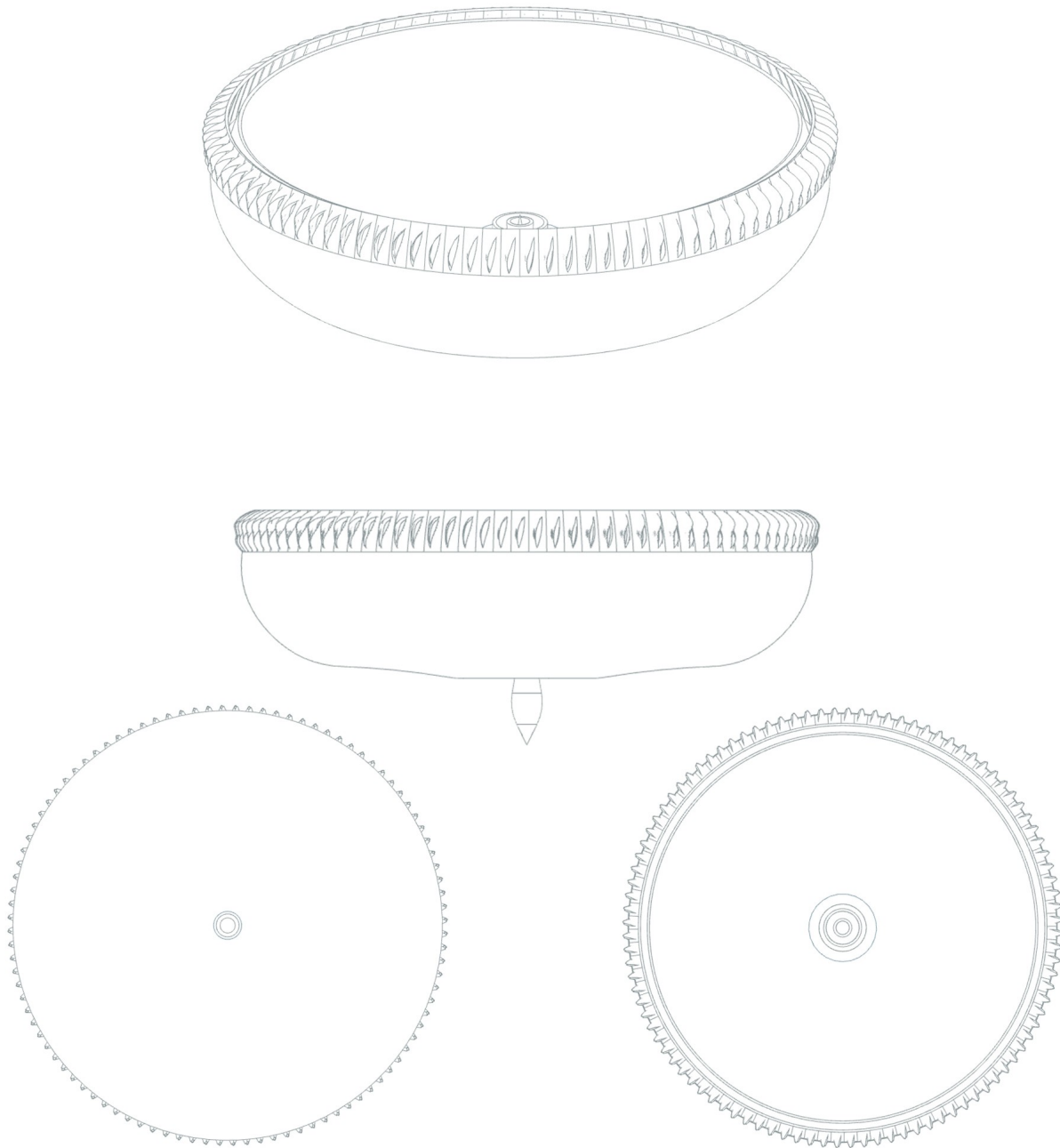
The present disclosure relates to an invention designed to, without the need for rotating blade systems, bring about and sustain the rotation of an apparatus by means of reactive and/or expansive forces, derived from the ionization of a working medium (i.e., derived from the ionization of liquid, fluid, gaseous, aqueous, and aeriform media such as air, water, and the like). Despite the name, the invention need not rely solely or at all on thermal expansion of the usual kind, indeed, it may imploym anomalous expansion (such as from particular molecular arrangements), electro-spraying-like processes, or any other means of producing expansion that can be facilitated by ionization and related processes like those involving the free or mostly free motion of charges and/or magnetically responsive particles/energies or the binding thereof.

The invention can be explained as a sort of inverted Pelton wheel where the jets, of which there are typically many, rotate and the blades are non-rotating, inward, that is, axis-facing, and arranged in a coronal-or-garland-like fashion. These jets can be produced by nozzles, nozzles designed to separate different components of the working medium, or wall perforations of various kinds. The (non-rotating) blade system, which is obviously inessential for producing rotation (and therefore inessential for the invention, as such), but which can enhance its functions through reactive fluidic processes that might be loosely compared to those that take place in a gun, can be of various forms, ranging from those that visually resemble water wheels, to simple fins or blades, to various organic, spiraling, helical, and gill-like forms. They may facilitate rotation of the working medium to one degree or another or break any such rotation to one degree or another. They may duct off the working medium towards the outside or direct it inward, and they may employ any applicable or advantageous combinations of the above arrangements/designs, or other advantageous combinations of mechanisms and designs, such as those directed towards the aim of preventing the build-up of excess pressure.

The invention can and should incorporate materials or combinations of materials, which in virtue of their properties (magnetic, electric, thermoelectric, thermomagnetic, galvanic, and so on), enhance or support the salient processes central to the specific application.

The present invention may be of any size and designed and used to facilitate any advantageous application, e.g., power production, propulsion, fluid conveyance, desalination, chemical syntheses (including in the realms of food and beverage chemistry), and the production or refinement of fertilizers or other agricultural amendments.

Here is a depiction of one possible embodiment of the invention:



In service to the Living Earth and for the common welfare of all free Nations and peoples, we at Earth Energy hereby publish this, that is, the above invention, in all possible forms and embodiments, forever into the public domain! Now it can never be patented, and any attempt to do so will be ruthlessly terminated by prompt legal action.