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(54) Title: AIRSHIP/SPACECRAFT (57) Abstract An airship/spacecraft, which, in a preferred embodiment, uses its lifting gas as fuel for thrusters, which may be of the turbo-type or rocket type, or both, to achieve transition to space flight. The airship aspect has gas retaining structures that can withstand internal and external pressure and can change in volume and shape. The gas retaining structures may be compartmentalized with a folded diaphragm membrane and also configured as pressure vessels. The spacecraft aspect provides control, power, services, and space for missions of the airship/spacecraft. The best mode includes a turbo-rocket thruster in which the turbine compressor is used to intake and compress a gaseous fuel for combustion with a stored oxidizer injected into the compressed gaseous fuel stream. The compressor stage is driven by the turbine stage, which is driven by burning gaseous fuel passing across the turbine blades. The burned gases are then expanded through an exhaust nozzle and thereby ejected to produce reaction thrust.		