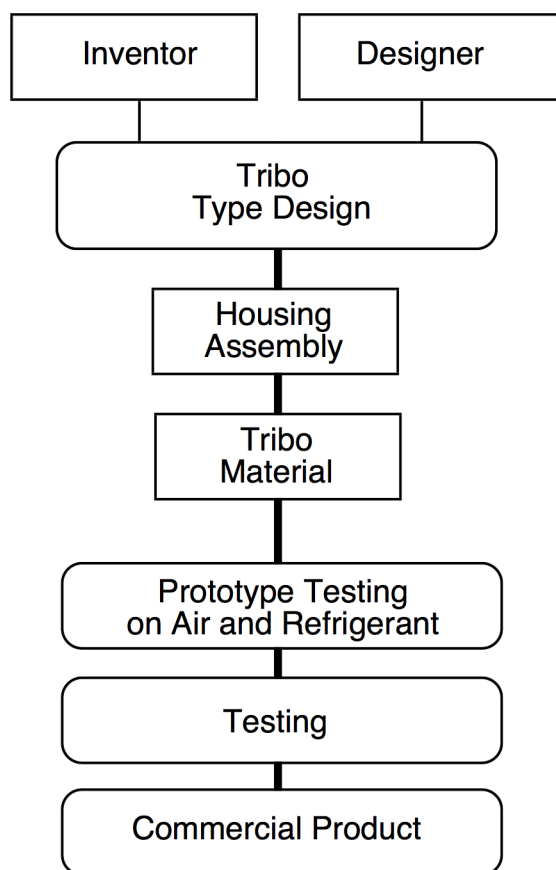


Fast Prototyping Using Tribo Gen Cycle

Solid State Expander Power Generator SSEPG

Tribo Gen Cycle | Triboelectric Nanogenerator (TNG)



The next leap in power generation will be the development and production of a solid-state turbine generator. The leapfrog technology is called Tribo-effect electrical power generation. On a small scale, it already exists as the Triboelectric Nanogenerator or TNG. The development flow of this cycle is 100 times faster than a traditional mechanical motion based (either linear or rotary based) power generation equipment. Putting aside the need for mechanical bearings (or expensive magnetic bearings) and copper wound generators not only saves design time, but materials, and production time. The result is a relatively maintenance free power generation system. When using CO2 as the working fluid, access to low-grade waste heat (as low as 30C) can be realized. Best of all, this cycle can be scaled from nano-size to powerplant size installations.