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(57) Abstract :

A rotary vane type air turbine engine utilizing compressed air as a fuel and, works on the reverse concept of an air compressor is provided. The rotary vane type air turbine takes compressed air from compressed air storage tank through the filter, regulator and lubricator unit and generates power to drive the shaft. Proposed Vane type air turbine is having variable inlet geometry with at least four number of vanes sliding inside the slots made therein on the rotor periphery, and casing liners provided inside the casing. The air turbine engine is 100% emission free and highly efficient with the performance range upto 97%.

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