



Title

METHOD FOR PRODUCING MECHANICAL WORK AND ROTARY HEAT ENGINE FOR APPLYING SAID METHOD



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Short presentation

The present invention solves the technical problems by developing a simple and efficient internal combustion rotary engine, with low vibration levels, that can operate efficiently at speeds over 10,000 rpm, providing a power-to-weight ratio higher than that of all known engines and that can be designed and manufactured for a wide range of power and applications.

The invention describes an internal combustion rotary engine designed for the operation of vehicles or certain tools, machinery, and equipment.

Internal combustion rotary engine comprising of a volumetric blade rotary compressor (1), a volumetric blade rotary engine (2) consisting of a housing (12), which holds rotor (13), which is equipped with some slots (13a), on which blades (14) are mounted. Housing (12) is built inside with a complex bore consists of two cylindrical bore (12a), (12b). concentric with rotor (13).

The compressed air or mixed fuel is taken in by the constant volume chambers (a0) and (b0) through the engine supply channel (AM) located in the secondary bore (12b) area. The constant volume chambers (a0) and (b0) go to the ignition channel (I), the ignited gas acting upon the blades and thus produces useful work.



Applicability

Internal combustion rotary engine designed for the operation of vehicles or certain tools, machinery, and equipment.

Building a rotary internal combustion engine according to the model described by this invention brings the following advantages: - small and compact engines which generate high power

- high efficiency
- very low levels of vibration and noise
- simplicity of construction by eliminating valves and using a continuous burning.



Images

