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The invention relates to the motor construction and may be used in the crank - rod mechanism of the internal combustion engines (ICE).

The connecting rod of an alternating length of the ICE contains the piston and crank crowns connected to the piston by a rod placed into the hydrocylinder and forming the communicating between them alternating volume cavities filled with fuel, the crank crown is provided with a lug into which is made the hydrocylinder into the walls of which are made inlet and outlet canals connecting both its cavities of the alternating volume to the engine casing space, and between the connecting rod crowns on the rod is installed the telescopic compression spring of the alternating rigidity.

The technical result consists in the fact that the invention provides the maintenance of the constant pressure into the combustion chamber, that is the working medium is burned up at a constant pressure. The ICE working according to this cycle is economically pure since there falls off the antidetonating additions necessity and the fuel consumption is reduced with 2-5 times.