UDC 543.226, 541.123.7, 662.769.21, 662.61

Nekrasov V.G., Makarov A.F., Zlydennyy A.A., Murzagaliev A.G. Engines for nitrogen fuel // Internal

combustion engines. – 2008. – № 2. – P.121-126.

Nitrogen-hydrogen compositions in the manner of

water solution of the nitric syntheses products of the

carbamide and ammonium nitrate are alternative, safe,

ecological clean renewable motor fuel. Energy release of

nitric fuel occurs on principle gas explosive of nitrogenhydrogen

combination and following combustion of the

hydrogen and carbon from isolated oxygen by force of

its gas explosive without participation of the atmospheric

air. The possible design of the engines are considered on

nitric fuel, turbine and piston type. Efficient process of

energy escape at the temperature not more 700оС and

exception of the use the atmospheric air opens the new

prospects of the making the volume engines of the flow

principle of the action with revolving workers element. It

is shown schemes of the engines of screw design with

cylindrical rotor, as well as perspective schemes of the

screw engines of the deep expansion. Il. 4. Bibliogr. 23

names.