

A gravitational engine has an impeller the rim of which is divided into equal sections with spokes connected to the rim and the hub. The impeller comprises two same wheels installed on bearings at both sides of the crank, a fixed pre-fabricated crankshaft 4 that is fixed on the frame of the engine with common for both wheels loads 7 installed on long bearings on spokes 9 with possibility of motion along the spokes, the rims of the impellers are connected to each other with holders, on the bolts at the middle between the spokes on which in center of the impeller a toothed crown 17 is installed and an installed on bearings in the impeller on the shaft 6 of the crank of the crankshaft that is taken out in horizontal direction by half-radius from axis of rotation of the impeller to direction of its rotation and fixed on the holders 5 on the shafts of the impeller 4 without possibility of turn, a supplementary wheel without a rim on the hub of which spokes made of two parts are installed: a fixed 8a – made of two steel strips with long not through cuts fixed on the hub of supplementary wheel, and movable 8b – a link the stone of which comprises a bolt fixed in the spoke and installed at both sides of the spoke and fixed with the nuts at outside bushings with possibility of motion and turn in the cuts of a fixed spoke 8a in such a way that total length of the spokes of the supplementary wheel together with load and the hub in end positions of the link is: maximal – a radius, and minimal – half-radius of the impeller from axis of rotation of the supplementary wheel. The other end of the link is fixed in hinged way in the holders of the loads 7 of the impeller on a bushing installed on the bolt to holders of loads with possibility of turn of the bushing with respect to the bolt and power takeoff shaft 13 installed on the bearings on the frame of the motor, there on a dowel a toothed pinion 12 is installed, this is in butt joint with the toothed crown 17 of the impeller, and a flywheel 15 on which devices for start and stop of the engine are placed and fixed on the frame of the engine.