

The invention relates to the mechanical engineering, namely to mechanisms for transforming the variable rotary motion into unidirectional rotary motion.

The mechanism, according to the first variant, is made in the form of gear transmission, including, installed onto the input shaft 2, to the ends of which are fixed turning levers 5 and 6, two conic gear-wheels 3 and 4 with an equal number of teeth, which mesh simultaneously with the conic gear pinion 7, rigidly joined with the intermediate shaft, the axis of which is perpendicular with the axis of the input shaft 2. Onto the intermediate shaft there are placed two cylindrical gear-wheels 10 and 11, mounted by means of two overrunning clutches 8 and 9, installed in opposition to each other, each of which is installed into the hub of each of them. The wheel 10 mesh with a gear-wheel 12 installed onto the output shaft 13, and the wheel 11 is joined with the wheel 12 through the intermediate gear-wheel 14.

The mechanism, according to the second variant, is characterized in that it includes two toothed quadrants, kinematically joined between them and rigidly installed onto two input shafts. The toothed quadrants mesh with the drive gear, rigidly fixed onto the intermediate shaft, onto both sides of which there are placed two gear-wheels, mounted by means of two overrunning clutches installed in opposition to each other, each of which is installed into the hub of each of them. One of the wheels meshes with a gear-wheel installed onto the output shaft, and the other is joined with said wheel through the intermediate gear-wheel.

Claims: 2

Fig.: 4

