

The invention relates to devices for electric power generation by nonconventional methods, namely by using the weight of the moving vehicles on certain roadway sections and transforming the mechanical energy into the electric one and may be used as self-contained device for power supply of different consumers of electric power.

The device for electric power generation by transformation of the moving vehicle weight comprises a roadway mobile section (1), an electric generator (14), a return spring (12) and transmission means, placed between the roadway mobile section (1) and the electric generator (14), transforming the mobile section displacement into rotation motion of the drive shaft (13) of the electric generator (14) and comprising a driving device and a driven device, coupled with the driving device and joined with the drive shaft (13) of the electric generator (14). The device additionally comprises at least one double-arm lever (2), mounted on bearing supports (3), and a base (8). The driving device includes an immobile pulley yoke (5) and a mobile pulley yoke (4), the mobile pulley yoke (4) being rigidly fixed onto one lever (2) arm, the other arm of which is tied with the possibility of adjustment with the roadway mobile section (1), and the immobile pulley yoke (5) is rigidly fixed onto supports (6). The driven device includes at least two drive mechanisms (9) and (11), installed onto the drive shaft (13) of the electric generator (14) and meant for creating the unidirectional rotation of the derive shaft (13) of the electric generator (14), installed at least onto two supports (15), and a stunt block (10) fixed onto a sup port (6). The flexible rope (7) consecutively bends round the mobile pulley yoke (4), the immobile pulley yoke (5), the block of the first drive mechanism (9), the stunt block (10) and the block of the second drive mechanism (11), at the same time one end of the flexible rope (7) is rigidly fixed to the base (8) from the end of the mobile pulley yoke (4) and the other end thereof, from the end of the second drive mechanism (11), is joined with one end of the return spring (12), the other end of which is rigidly fixed onto the base (8). The electric generator, the bearing supports of the lever, the supports of the immobile pulley yoke, of the drive shaft and of the stunt block are rigidly fixed onto the base.

Claims: 10

Fig.: 1

