

TRANSMISSION WHEEL SERIES WITH PERIODICALLY VARIED SPEED RATIO AND HAVING RECIPROCALLY DISPLACING AUXILIARY PULLEY FOR STORING/RELEASING KINETIC ENERGY

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ABSTRACT

The present invention is installed with a unidirectional transmission device at the active side, so when a transmission belt is tightened while the active pulley driving a passive pulley in periodically varied speed ratios, an auxiliary pulley (312) is linked simultaneously so as to form a prestressed force for storing energy, when the force applied by the active pulley to the passive pulley through the transmission belt is zero or relatively smaller, the auxiliary pulley (312) is enabled to release energy for recovering so as to apply force to the transmission belt, because the transmission belt is coupled to the active pulley and/or one end of the active wheel shaft combined with the active pulley is restrained by the unidirectional transmission device, the transmission belt is enabled to link the passive pulley to operate in the original revolving direction for feeding back the kinetic energy.

Figure 12