

Title (en)

A DRIVE AND CONTROL SYSTEM FOR POWER GENERATION AND PULSE GENERATION IN AN ELECTRONIC LOCK

Title (de)

ANTRIEBS- UND KONTROLLSYSTEM ZUR STROM- UND IMPULSERZEUGUNG IN EINEM ELEKTRONISCHEN SCHLOSS

Title (fr)

SYSTEME D'ENTRAINEMENT ET DE CONTROLE POUR LA PRODUCTION D'ENERGIE ET POUR L'EMISSION D'IMPULSIONS DANS UNE UNITE DE VERROUILLAGE ELECTRONIQUE

Publication

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Application

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Priority

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- US 6937497 P 19971212

Abstract (en)

[origin: WO9929987A1] A drive and control system for the generator and a separate switch or electrical pulse data input of an electronic lock. The drive system includes a direct drive from the dial knob (10) to the dial cam (40), which carries thereon a segmented ring magnet (42) or a device that is capable of actuating an electrical, mechanical, or optical switch. The ring magnet or other switch actuating device rotates with the dial cam and dial knob. The drive system also includes a clutch in the drive chain between the direct drive and a generator/stepper motor (34). The clutch permits the dial to generate power when rotated in a first direction. The switches effectively provide electrical pulses which may be used as a data input. It is desirable to electrically disconnect or disable the switch from sending data representative pulses to the logic circuits or microprocessor (62) of the electronic controls when power is generated. This is accomplished by monitoring a signal that indicates the generator is generating electrical energy and only permitting the passage of emitter pulses to the electronic controls when the generator power output does not exist. Thus, this drive and control system for the generator and the emitter or electrical pulse data input of an electronic lock permits power to be generated as the dial is rotated in a first direction and pulses representative of the approximate dial position to be provided to the electronic controls as the dial is rotated in a second opposite direction.

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