ACTUATOR WITH TELESCOPIC SLIDERS

Prof.univ.em.dr.ing. Vasile NĂSUI

Technical University of Cluj Napoca. North University Center of Baia Mare

E-mail: Vasile.Nasui@cunbm.utcluj.ro

Introduction

The actuator is a subassembly that produces mechanical work in response to a signal, having the ability to generate a movement. Electromechanical linear actuators, as execution elements compatible with mechatronic technology, are superior to conventional ones.

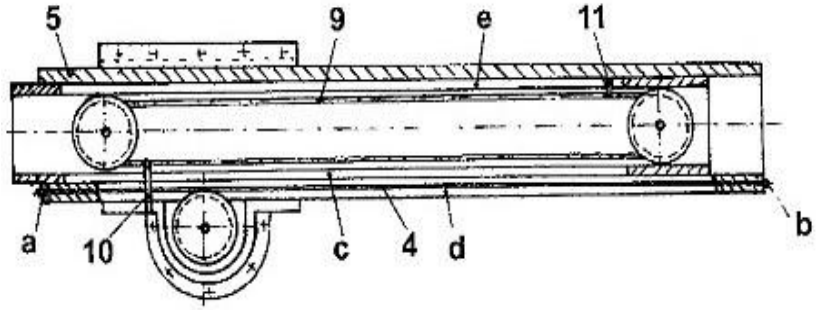
Motivation:

Areas of application: robots, automotive industry, aerospace, various equipment. They are also used at feed tables, elevators, lifting, handling and rotation devices, etc

Results

The experimental model with a single telescopic branch was experimented with good results in operating gates and doors.

Patent OSIM nr. RO 130517 B1 (2021)



Conclusions

Telescopic slide actuator is equipped with a gear motor that drives a transmission cable attached to a sliding support which slides another slide. The slide has a transmission cable that is connected to the body of the actuator lower branch and upper branch to the next slide. Extension mechanism is obtained by simultaneous translational motion of both runners with a race speed and increased, having a small size and constructive simplicity.

References

Nasui, V. *Actuatori liniari electromecanici,* Editura Risoprint Cluj-Napoca, 2005

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