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Author: Mrs. Zhou Bei  
China Academy of Launch Vehicle Technology (CALT), China, woshizhoubei@tom.com

Mr. Lou Yizhi  
China, 29878758@qq.com

Mr. Shi Rui  
China, 29878758@qq.com

Mr. Zhong Jiehua  
China, 29878758@qq.com

A NEW SERVO MECHANISM NAMED ECCENTUATOR

**Abstract**

Aiming at the problems that the torque is large and the installation is narrow and long, the paper puts forward a new light-gauge mechanism named eccentuator. Eccentuator doesn't drive the rudder axle like the traditional servo mechanism, but drives the control surface directly. Prototype model is designed, which passed the preliminary test. The results indicate that the design is reasonable.