

ABSTRACT**Method for controlling a thrust unit for a propulsion device**

The invention relates to a method (100) for correcting the thrust vector created by a thrust unit associated with electrical correction means of said thrust vector. Such a thrust unit comprises a mechanical rotor moved in rotation by a rotary shaft of an internal combustion engine (12a-e) in response to a power command (PC). Such a method (100) comprises a step (110) of generating this latter (PC) in order to reduce the error value (RSE) between a rotation speed setpoint (RSI) and a measured rotation speed (RSM) of the shaft of the internal combustion engine (12a-e) and thus to correct the speed of the shaft of said internal combustion engine (12a-e). The method also comprises a step (120) of generating an actuation command (AC) of thrust vector electrical correction means (19a-e) generated based on said error value (RSE) independently of said speed correction of the shaft of said internal combustion engine (12a-e).

Figure 6.