

Title (en)

MOTOR FEED BACK LOOP AND CONTROL SYSTEM, IN PARTICULAR FOR AN ELECTRICALLY MOTORISED ROLLERBOARD OR LONG BOARD

Title (de)

MOTORSTEUERUNGS- UND REGELEINRICHTUNG INSBESONDERE FÜR EIN ELEKTRISCH ANGETRIEBENS SKATE- ODER LONGBOARD

Title (fr)

DISPOSITIF DE REGLAGE ET DE COMMANDE DE MOTEUR EN PARTICULIER POUR UNE PLANCHE A ROULETTES OU LONGBOARD DOTE D'UN MOTEUR ELECTRIQUE

Publication

**EP 3115091 B1 20180131 (DE)**

Application

**EP 16001508 A 20160705**

Priority

DE 202015004862 U 20150710

Abstract (en)

[origin: US2017007910A1] A motor control and regulating device has a sensor system for detection of forces acting sideways on a skateboard or longboard relative to the travel direction, sensor systems for control of the rpm of an electric motor, measurement of rpm and direction of rotation of rollers of the skateboard or longboard, and detection of the turning angle of the skateboard or longboard relative to the travel direction. There is an electronic data processor with an integrated controller, which controls the rpm and direction of rotation by processing the signals received by the sensor systems. Forces acting sideways on the skateboard or longboard are deflected into a lateral thrust force. Without an external controller, the direction of rotation of the electric motor is reversed approximately in real time when the skateboard exceeds a defined angle so it is no longer in a rolling mode but instead in a sliding mode.

IPC 8 full level

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CPC (source: EP US)

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