

Title (en)

SYSTEM FOR CONTROLLING BRAIN MACHINE INTERFACES AND NEURAL PROSTHETIC SYSTEMS

Title (de)

SYSTEM ZUR STEUERUNG VON GEHIRN-MASCHINE-SCHNITTSTELLEN UND NEURALE PROTHESENSYSTEME

Title (fr)

SYSTÈME DE COMMANDE D'INTERFACES MACHINE-CERVEAU ET SYSTÈMES DE PROTHÈSE NERVEUSE

Publication

EP 3068349 A1 20160921 (EN)

Application

EP 14861977 A 20141113

Priority

- US 201361903538 P 20131113
- US 2014065537 W 20141113

Abstract (en)

[origin: WO2015073713A1] Described is a system for controlling a torque controlled prosthetic device given motor intent inferred from neuroimaging data. The system includes at least one torque controlled prosthetic device operably connected with one or more processors. Further, the system is configured to receive neuroimaging data of a user from a neuroimaging device and decode the neuroimaging data to infer spatial motion intent of the user, where the spatial motion intent includes desired motion commands of the torque controlled prosthetic device represented in a coordinate system. The system thereafter executes, with a prosthesis controller, the motion commands as torque commands to cause the torque controlled prosthetic device to move according to the spatial motion intent of the user.

IPC 8 full level

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CPC (source: EP US)

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