

ABSTRACT**Secure, motor-driven hinge to be provided on a humanoid robot**

The invention relates to a secured motorized articulation intended to be mounted between a first and a second limbs of a humanoid-type robot, characterized in that it comprises:

- a motor (21) comprising a fixed part (25) intended to be linked to the first limb, and a mobile part (26) that can be moved relative to the fixed part (25) and intended to be linked to the second limb relative to the first limb,
- a brake (22) capable of exerting a force on the mobile part (26) of the motor (21) by spring effect, to prevent the movement of the mobile part (26) relative to the fixed part (25),
- an actuator (23) capable of displacing the brake (22) by opposing the spring effect, so as to release the mobile part (26) of the motor (25) from the force of the brake (22) and allow the motor (21) to move the mobile part (26) relative to the fixed part (25).

FIG 2a