

Title (en)

DEVICE FOR REMOTE CONTROL OF THE MOVEMENT OF GRIPPING ELEMENTS

Title (de)

FERNBEDIENUNG ZÜR STEUERUNG DER BEWEGUNG EINER GREIFVORRICHTUNG

Title (fr)

DISPOSITIF DE TELECOMMANDE DE MOUVEMENT NOTAMMENT D'ORGANES DE PREHENSION

Publication

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Application

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Abstract (en)

[origin: WO0064386A1] The invention relates to the remote control of a mechanical transmission, more particularly to the remote control of at least one gripping element by a monodirectional means of action, whereby said gripping element comprises articulated means which can close by converging upon the object which is to be gripped and which can be locked in an active position upon contact with said object and the control means can be disengaged in said gripping position. The inventive device comprises a) a primary pulley (3) which is joined to a control cable (4); b) a spring (5) which angularly returns the primary pulley to its initial position counter to the action of said cable; c) a secondary pulley (9) which is joined to the end of the output cable (10) terminating in the elements which are to be controlled; d) a self-disengaging mechanical drive disk (8) which, for a torque value exceeding a given threshold, can displace the secondary pulley (9) in a disengaged position; e) a locking ring (13) for the second pulley in a disengaged position; f) opposing trapezoid-shaped teeth (8b,9b) on opposite surfaces of the disk (8) and secondary pulley (9), whereby the pulley (9) can be alternatively driven by means of ring dogging by said disk and the teeth can be disengaged by means of a cam effect on the basis of a given torque. The invention can be used to control the gripping manoeuvres of a manual prosthesis using a single traction cable from a dorsal harness.

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