

Title (en)
WRIST TENDON ACTUATOR

Publication
EP 0296156 A4 19901128 (EN)

Application
EP 87900954 A 19870120

Priority
US 82067786 A 19860121

Abstract (en)
[origin: WO8704540A1] The wrist actuator or joint (10) includes a ball (20) having two grooves (22, 24) in its surface, each groove extending circumferentially about the ball and disposed approximately 90° from each other. A housing (40) has a socket for receiving the ball and includes two slots (41, 42) located proximately at an equatorial plane of the ball. A frame (32) is secured to the ball at the intersection of the grooves opposite the housing. A first ribbon (52), slidable within the first groove (22), is attached to pivot pins (56, 58) in the slots and is looped around a first pulley (70) within the frame. A second ribbon (54), slidable within the second groove (24), is attached to pivot pins (60, 62) mounted in the housing at the approximate midpoints between the slots and is looped around a second pulley (74) within the frame. An output shaft (45) is connected to the housing. Motors (72, 76) provide selective movement of the drive ribbons.

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G05G 11/00; **B25J 17/02**

IPC 8 full level
B25J 9/10 (2006.01); **B25J 17/02** (2006.01)

CPC (source: EP)
B25J 9/104 (2013.01); **B25J 17/0283** (2013.01)

Citation (search report)

- [AP] US 4628765 A 19861216 - DIEN ROBERT Y [US], et al
- [A] DE 219814 C
- See references of WO 8704540A1

Designated contracting state (EPC)
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