

Title (en)
INDUSTRIAL ROBOT HAVING AT LEAST ONE DRIVE

Title (de)
INDUSTRIEROBOTER MIT WENIGSTENS EINEM ANTRIEB

Title (fr)
ROBOT INDUSTRIEL COMPORTANT AU MOINS UN ENTRAÎNEMENT

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Application
EP 14750241 A 20140812

Priority
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Abstract (en)
[origin: WO2015024818A1] The invention relates to an industrial robot (1), comprising a robot arm (2), which is formed having members (9, 10, 12) and is formed to bear a load and to move said load in space, having articulations (11), which connect the members (9, 10, 12) such that they can move relative to each other by means of drives (13) and gearing systems (14) associated with the drives (13), of which members at least one first member (9) has a first housing (9a) and at least one second member (10) has a second housing (10a), said housings being formed to transmit forces and moments that occur owing to the dead weight of the robot arm (2) and/or of the load to at least one adjacent member (9, 10) in each case; wherein the first member (9) is articulated in a rotatable manner in relation to the second member (10) by means of one of the drives (13), and said drive (13) has a drive housing (15), a rotor (16) and also a stator (17), which is connected to the drive housing (15), and the drive housing (15) is fastened to the first housing (9a) of the first member (9) and forms an outer wall section (2a) of the robot arm (2), said outer wall section transmitting the forces and moments; wherein one of the gearing systems (14) is associated with said drive (13) and has an output member (19) and an input member (20), which is connected to the rotor (16) of the drive (13), and in which the output member (19) of the gearing system (14) is connected to a flange (22), the flange (22) is mounted such that the flange (22) can rotate in relation to the drive housing (15), and the second housing (10a) of the second member (10) is fastened to the flange (22).

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