

Title (en)
INDUSTRIAL ROBOT FOR MATERIAL PROCESSING

Title (de)
INDUSTRIEROBOTER FÜR DIE MATERIALBEARBEITUNG

Title (fr)
ROBOT INDUSTRIEL POUR L'USINAGE DE MATÉRIAUX

Publication
EP 3496905 A1 20190619 (DE)

Application
EP 17751364 A 20170804

Priority
• DE 102016214874 A 20160810
• EP 2017069845 W 20170804

Abstract (en)
[origin: WO2018029113A1] An industrial robot (1) for material processing comprises a manipulator (2) with a base (8), a swing arm (10), an arm (11) and a hand (12). By means of the manipulator (2), a processing device (3) of the industrial robot (1) is movable, said processing device (1) being attached to the hand (12) of the manipulator (2) and being able to be supplied with a medium via at least one medium line (7). Provided for the medium line (7) is a drag chain (4) which is put under tension directed away from a processing-side attachment (5) of the drag chain (4) by means of a tensioning device (20). The tensioning device (20) comprises a tension lever (22) and a restoring device (23) provided for the tension lever (22). The tension lever (22) of the tensioning device (20) is, for the one part, attached to a part-length (19) of the drag chain (4), which extends between a swing-arm-side holding device (17) and the processing-side attachment (5) for the drag chain (4), and, for the other part, mounted on the manipulator (2) so as to be pivotable about a lever pivot axis (25) extending parallel to a swing-arm axis (13) of the swing arm (10) and an arm axis (14) of the arm (11). Counter to the action of a restoring force generated by the restoring device (23) of the tensioning device (20), the tension lever (22) is deflectable towards the processing-side attachment (5) of the drag chain (4) by the part-length (19) of the drag chain (4), extending between the swing-arm-side holding device (17) and the processing-side attachment (5) and moving counter to the tension in a chain longitudinal direction, by a pivoting movement about the lever pivot axis (25).

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Citation (search report)
See references of WO 2018029113A1

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