

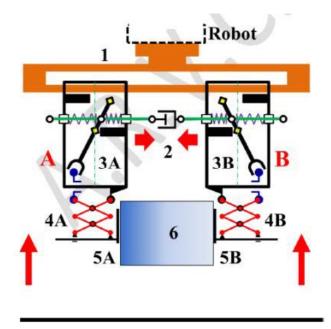




TITLE CLAMP OF AUTOMATIC SHRINK FOR ROBOT

DESCRIPTION OF THE TECHNOLOGY

This technology is a system capable of collecting items from a platform with a clamp. It is composed of the system support (1), two identical modules (A and B), a linear actuator together or separating the two modules (2) and within each module. two articulated mechanisms (3A and 3B) which actuate the scissor mechanisms (4A and 4B) and fingers. In this system scissors, which can be extended and folded in the direction normal to the plane where lies the part (6) is coupled the final link (5A) and (5B) which makes contact with the element to be grasping or release. With this configuration, when putting together the actuator modules approach and scissors are stretched by placing fingers in the distance and the height corresponding according to the object to be gripped. The opposite occurs when the modules producing the piece separate release.



MARKET APPLICATION SECTORS

The system application is very wide, and may extend to all situations where the handling or manipulation of elements of different shapes and sizes as necessary, either industrial level, placed at the end of a robot, or other levels, for example placed in a small toy to manipulate chips.

TECHNICAL ADVANTAGES AND BUSINESS BENEFITS

This mechanism, when it is applied in robotics, permits to carry out coordinated movements in various directions driven by a single motor. This technology allows a platform to collect items so that, once trapped in the clamp, to move the robot if vary the height of the effector, relative to the parallel plane of the platform where the objects are placed.

CURRENT STATE OF DEVELOPMENT

It has been developed exclusively in the laboratory.

INTELLECTUAL PROPERTY RIGHTS

Protected by patent in Spain. All the rights belong to the Universidad Miguel Hernández de Elche.





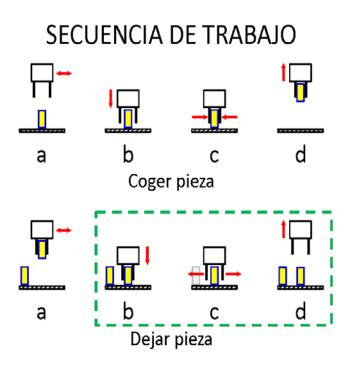


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COLABORATION SOUGHT

Collaboration with companies interested to carry out proof of concept in order to facilitate commercialization and industrial implementation of this technology.

RELATED IMAGES



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