

Title (en)  
ROBOTIC STRUCTURE WITH SIX DEGREES OF FREEDOM ALLOWING GRIPPING

Title (de)  
ROBOTISCHE STRUKTUR MIT SECHS FREIHEITSGRADEN ZUM GREIFEN

Title (fr)  
STRUCTURE ROBOTIQUE À SIX DEGRÉS DE LIBERTÉ PERMETTANT LA PRÉHENSION

Publication  
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Application  
**EP 17786969 A 20170929**

Priority

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Abstract (en)  
[origin: WO2018065702A1] The present invention relates to a parallel robotic structure (1) with six degrees of freedom which comprises movable bases (2, 21, 22, 23, 24, 25, 26, 27, 21', 22', 23', 24', 25', 26', 27', 28') that can be rotated or translated, and a platform (3) coupled with the movable bases by moving means, characterised in that the platform (3) is made up of two rigid elements connected to one another by a single articulation. Said novel solution is an original and innovative parallel robotic structure (1) which makes it possible to perform cutting, gripping and handling operations simultaneously with six degrees of freedom without requiring an additional tool. The gripping functionality is provided by the articulated platform which is an integral part of the mechanical architecture and can be entirely controlled by the offset actuators located in the stationary base.

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