Support frame for a hand exoskeleton

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Invention

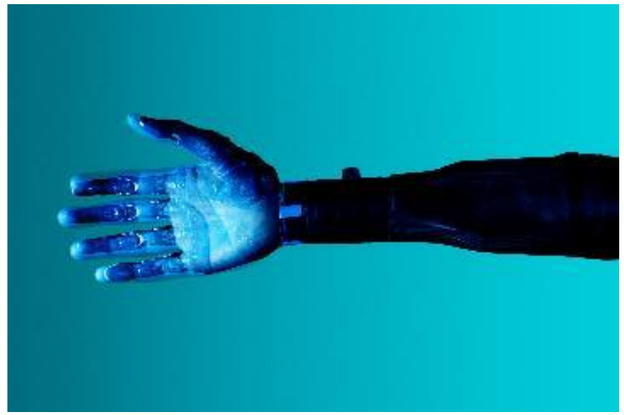
Wearable robotics in recent years is becoming increasingly popular. It is now not uncommon to see examples in everyday life of using robots, prostheses or exoskeletons. Surely the phenomenon will increase given the growing trend of technologies that are increasingly presented in this area. An aspect not to be overlooked for this type of applications, to which this patent is addressed, is that of wearability and which is essential to make the use of an exoskeleton fully exploitable: sizes, anthropometries, shape of body segments.

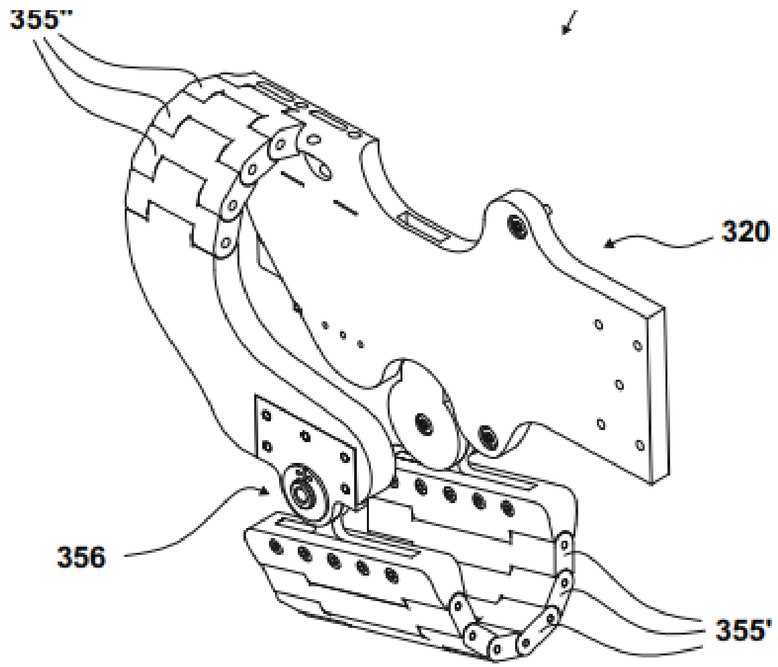
The patent protects a hand exoskeleton support frame. This is characterized by two configurable straps able to be suitably configured to fit on a wide range of hands whose anthropometry is very varied (eg: S, M, L, XL).The invention is also characterized by the particular closure buckle which also guarantees a directionality of the strap as well as the size.

Main advantages are:

- Protection of the particular embodiment
- Dressing adjustments for different hand anthropometries
- Guaranteed alignment between hand and hand exoskeleton

Drawings
& pictures





Applicabilità Industriale

The field of industrial applications is represented by wearable robotics.

Possible developments

The technology underlying the patent is in a development phase that is not yet fully mature for the market with the respective products.

The TRL is still to be considered low (eg: 2/3) suitable for experimental validation prototypes but has a great potential to enable the technology.

Still numerous other insights are needed by the research team to make the technology effectively applicable to a product.

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