

THROWING ARM

DESCRIPTION OF THE INVENTION

The objective of this invention is a device and a method that will allow the acquisition and subsequent reconstruction of objects without specific handling and without contact at the time of acquisition.

The most important advantage is that the object achieves at the height of its trajectory the central point of the acquisition device, to be captured at the moment when its speed is almost nil, so the conditions are optimal to obtain the best resolution and precision without the need for a high-performance lighting source.

In addition, the path and dynamics of the mechanical arm is adapted to optimize the

reception of the object in its return path, avoiding knocks and loss of control of the object under inspection.

APPLICATION BUSINESS SECTORS

As for the application to which the invention is intended, the feeding of objects on a control and inspection system to verify its three-dimensional shape, surface and its volumetric measurements, is an important area in the scope of the "Industrial Vision".

The following are possible application sectors, although not restricted:

- Metalworking sector (metal parts)
- Plastic sector (plastic parts)
- Medical sector (implants of all types)
- Pharmaceutical sector
- Food industry
- Jewellery sector
- ...

TECHNICAL ADVANTAGES AND BUSINESS BENEFITS

- It allows automatically feeding an inspection system for quality control.
- It does not require reconfiguration to change the type of object under inspection, since there is no manipulation in the process of feeding and output of the object under examination.
- Adaptable to the specific needs of size and precision.
- Reduces the necessary performance of the lighting subsystem thanks to the fact that it facilitates a capture of the object with almost zero speed.

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STATUS DEVELOPED OF THE TECHNOLOGY

Prototype in phase of industrialization and first sales of licenses.

INTELLECTUAL PROPERTY RIGHTS

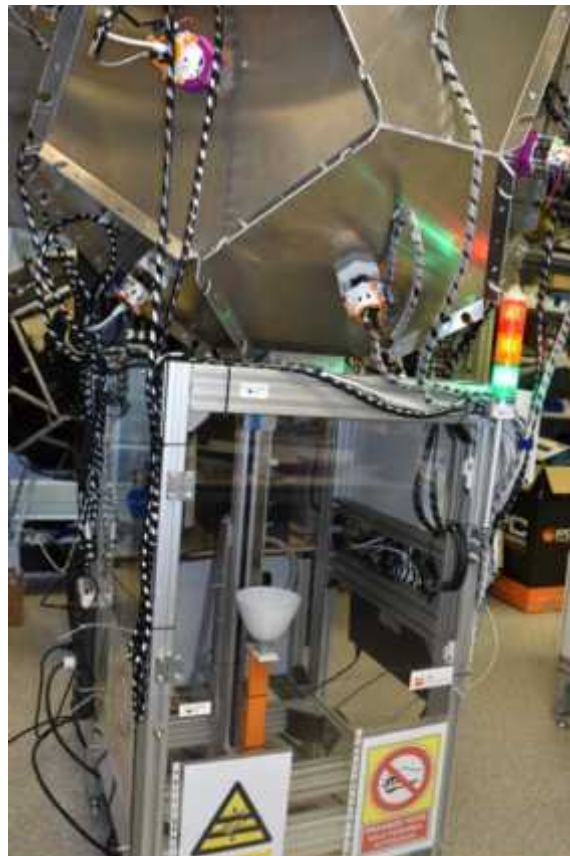
Patent protected in USA and Europe

COLLABORATION SOUGHT

Companies interested in the following cooperation channels are sought:

- Patent license agreement for the implementation and use of technology.
- Agreement for the development of R & D project (technical cooperation) to finalize the development of the technology, or application to other sectors.

RELATED IMAGES



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CONTACT DETAIL

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