



ISTITUTO ITALIANO  
DI TECNOLOGIA

## TITLE

Struttura Dispiegabile A Mantenimento Di Forma Includente Una Coppia Di Sistemi Robotici Di Tipo Continuo

## INVENTORS

Edoardo Sinibaldi, Byungjeon Kang, Risto Kojcev

## DESCRIPTION

The invention relates to a continuously steerable robotic probe composed of two interlaced continuum robots that advance over a chosen smooth trajectory by a follow-the-leader strategy. Physical track-building is achieved by an alternating method: each continuum robot is alternatively actively stiffened to guide the other, and loosened to be guided on the other.

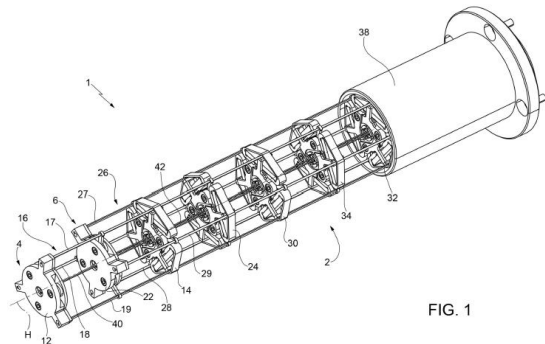


FIG. 1

## APPLICATIONS

Biomedical, surgery, aerospace

## KEYWORDS

Steerable, probe, continuum, interlaced, follow-the-leader

## BIBLIOGRAPHIC DATA

Steerable probe based on interlaced continuum devices based on follow the leader approach

Application Number IT 102015902349212

Priority Date 27/04/2015

Applicants Fondazione Istituto Italiano di Tecnologia, Scuola Superiore Sant'Anna

## CONTACTS

Technology Transfer Office

Matteo Faccenda

Matteo.faccenda@iit.it

+39 010 71781 968