



ISTITUTO ITALIANO  
DI TECNOLOGIA

## TITLE

Apparatus and method for the automated detection of odorant substances in solution by use of nematodes *Caenorhabditis Elegans*

## INVENTORS

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## DESCRIPTION

The present invention relates to an apparatus and an automated detection method of molecular compounds in solution based on the use of multi-cellular microorganisms. The invention is efficient, reliable, simple and economical. In particular, the apparatus is based on the use of *Caenorhabditis Elegans* or *C. Elegans* nematodes, highly efficient in recognizing and interacting with certain molecular compounds showing high chemo-sensitivity and chemotaxis.

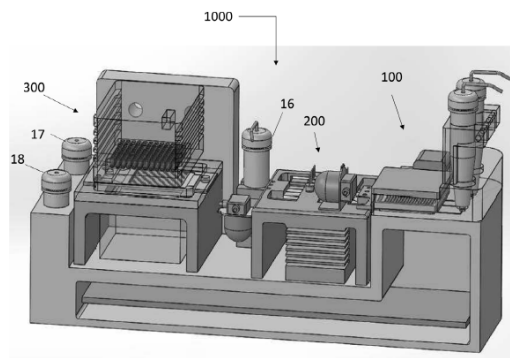


Figura 1

## APPLICATIONS

Screening in the medical field, tumor markers

## KEYWORDS

*Caenorhabditis Elegans*, microorganisms, nematodim screening, marker, chemotaxis

## BIBLIOGRAPHIC DATA

Apparato e metodo per il rilevamento automatizzato di sostanze odoranti in soluzione tramite impiego di nematodi *Caenorhabditis Elegans*

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