



## Imaging Method Using Magnetic Elements And Device For This Purpose

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### The Invention

Method for imaging regions of a sample using a light source and an optical detection means and at least one device for moving the sample in three dimensions, comprising the following method steps: a) introducing at least one magnetic element into the sample, b) applying a magnetic field by means of the at least one device for moving the sample in three dimensions, the magnetic field interacting with the at least one magnetic element introduced into the sample, c) arranging the region of the sample in a radiation region of the light source and in a detection region of the detection means, d) emitting first light beams from the light source onto the sample, e) generating second light beams by means of the sample, f) recording an image of a region of the sample by capturing a proportion, incident on the detection means from the sample, of the second light beams, g) moving the at least one magnetic element and the sample containing this at least one magnetic element by varying the magnetic field, h) repeating steps d) to g) until a predeterminable number of images have been recorded.

#### Tech Fields

- [Analytical Instrumentation, Methods & Materials : Optics](#)
- [Medical Imaging : CT](#)
- [Medical Imaging : Other diagnostic imaging](#)

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