

Title (en)

LUMINESCENCE SCANNING MICROSCOPY PROCESS AND A LUMINESCENCE SCANNING MICROSCOPE

Title (de)

VERFAHREN ZUR LUMINESZENZ-RASTERMIKROSKOPIE UND EIN LUMINESZENZRASTERMIKROSKOP

Title (fr)

PROCEDE DE MICROSCOPIE A BALAYAGE A LUMINESCENCE ET MICROSCOPE A BALAYAGE A LUMINESCENCE

Publication

**EP 0706671 A1 19960417 (DE)**

Application

**EP 95916571 A 19950427**

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Abstract (en)

[origin: US5777732A] PCT No. PCT/DE95/00566 Sec. 371 Date Apr. 25, 1996 Sec. 102(e) Date Apr. 25, 1996 PCT Filed Apr. 27, 1995 PCT Pub. No. WO95/30166 PCT Pub. Date Nov. 9, 1995The description relates to a process for luminescence scanning microscopy with two-photon excitation, especially for examining biological objects (5). A laser pulse excites luminescent, especially fluorescing molecules and the luminescence emitted by the object (5) is measured and evaluated. In the process, the luminescent molecules in the object (5) are excited by laser pulses of over 10-12 second duration. A luminescence scanning microscope for implementing the process has a detector (2), a filter (7, 8) for separating the light emitted by the sample from the laser light (4) and a laser light source which is a laser (1) emitting pulsed or continuous radiation.

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