

Title (en)
MICROSCOPE WITH EVANESCENT WAVE ILLUMINATION

Title (de)
MIKROSKOP MIT EVANESZENTER BELEUCHTUNG

Title (fr)
MICROSCOPE A ECLAIRAGE EVANESCENT

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Abstract (en)
[origin: WO2005029149A1] The invention relates to a microscope with a first and a second illuminating light beam (3, 38), for the illumination of a sample (25), characterised in that the first and/or the second illuminating light beam (3, 33) illuminates the sample (25) with an evanescent wave. For a CARS investigation, the first illuminating light beam can be a pumped light beam (43) and the second illuminating light beam can be a Stokes light beam (45). In order to achieve an increase in resolution, the first illumination light beam can be an excitation beam and the second illuminating light beam can be a stimulating light beam.

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