

## Title (en)

METHOD AND APPARATUS USING A SURFACE-SELECTIVE NONLINEAR OPTICAL TECHNIQUE FOR DETECTION OF PROBE-TARGET INTERACTIONS

## Title (de)

VERFAHREN UND VORRICHTUNG MIT EINER OBERFLÄCHENSELEKTIVEN, NICHTLINEAREN OPTISCHEN TECHNIK ZUM NACHWEIS VON SONDEN-ZIELMOLEKÜL-WECHSELWIRKUNGEN

## Title (fr)

PROCEDE ET APPAREIL UTILISANT UNE TECHNIQUE OPTIQUE NON LINEAIRE SELECTIVE EN SURFACE POUR LA DETECTION D'INTERACTIONS CIBLE-SONDE

## Publication

**EP 1346064 A4 20050119 (EN)**

## Application

**EP 01957166 A 20010717**

## Priority

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- US 25386200 P 20001129
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- US 26577501 P 20010201
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## Abstract (en)

[origin: WO0244412A1] A surface-selective nonlinear optical technique, such as second harmonic or sum frequency generation, is used to detect reactions between surface-attached probes and labeled targets or used to perform imaging of a surface. The surface-selective optical technique allows detection of only those target components near the interface while ignoring those present in the sample bulk. In addition, the direction of the nonlinear light is scattered from the surface in a well-defined direction and because of this, its incidence at a detector some distance from the surface may be easily mapped to a specific and known location on the surface.

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## Citation (search report)

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