

Title (en)
DIFFRACTIVE BIOSENSOR

Title (de)
DIFFRAKTIVER BIOSENSOR

Title (fr)
BIOCAPTEUR DIFFRACTIF

Publication
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Application
EP 19719788 A 20190416

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Abstract (en)
[origin: WO2020015872A1] The invention relates to a diffractive biosensor for selectively detecting biomolecules, comprising a substrate (S) and an optical biograting (BG) arranged on the substrate (S). The biograting (BG) has periodically arranged receptors for the biomolecules, and the efficiency of a diffraction of incident light (L), and thus the intensity of a measurement light bundle (ML) striking the detector (D), depends on a mass occupancy of the biograting (BG) by the biomolecules to be detected. The biosensor has a device (RG, ST1) for generating a reference light bundle (RL) which is oriented towards the detector (D) and by means of which the phase position of scattered light striking the detector (D) can be determined.

IPC 8 full level
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Citation (search report)
See references of WO 2020015872A1

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WO 2020015872 A1 20200123; CN 112424584 A 20210226; DE 102019205527 A1 20200123; EP 3824272 A1 20210526; JP 2021531459 A 20211118; JP 7278363 B2 20230519; US 2021270736 A1 20210902

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