

Title (en)
AUTOFOCUS SYSTEM

Title (de)
AUTOFOKUSSYSTEM

Title (fr)
SYSTÈME AUTOFOCUS

Publication
EP 2601551 A1 20130612 (DE)

Application
EP 11733817 A 20110617

Priority
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Abstract (en)
[origin: WO2012016753A1] Microscopic device for imaging a sample substance (1), comprising: - a microscopic imaging system, and - means for automatically displacing the focal plane along the optical axis (4) of the imaging system into a Z-position, in which the sample substance (1) to be imaged is situated, characterized by - a sample beam (10) which emerges from an interferometer and is directed in the Z-direction through the sample substance (1), wherein the interference signals arising as a result of interference of the light of the sample beam (10) that is reflected or backscattered from optically active interfaces and/or structures with the reference beam of the interferometer are provided for determining the Z-positions of the interfaces and/or structures of the sample, - an evaluation device for determining the Z-position of the sample substance (1), - an adjusting device, designed for displacing the focal plane and the sample substance (1) relative to one another until the sample substance (1) is situated in the focal plane, and - a drive unit connected to the evaluation device and the adjusting device and serving for generating actuating commands for automatically displacing the focal plane into the Z-position determined.

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