

Title (en)

METHOD, SYSTEM AND PARTS FOR ENABLING NAVIGATION IN A SCANNING PROBE MICROSCOPY SYSTEM

Title (de)

VERFAHREN, SYSTEM UND TEILE ZUR ERMÖGLICHUNG DER NAVIGATION IN EINEM RASTERSONDENMIKROSKOPIESYSTEM

Title (fr)

PROCÉDÉ, SYSTÈME ET PIÈCES POUR PERMETTRE UNE NAVIGATION DANS UN SYSTÈME DE MICROSCOPIE À SONDE DE BALAYAGE

Publication

EP 4214519 A1 20230726 (EN)

Application

EP 21794211 A 20210916

Priority

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Abstract (en)

[origin: WO2022060224A1] The present document relates to a method of calibrating a scanning probe microscopy system for enabling navigation. The system comprises one of more scan heads, a coordinate reference grid and a substrate carrier. The substrate carrier includes a carrier surface arranged opposite the coordinate reference grid and remotely therefrom such as to define a working space for the one or more scan heads. For enabling navigation between the scan heads and the substrate carrier, a relation is determined, using a sensor encoder cooperating with the coordinate reference grid, between a relative position of an optical sensor and the coordinate reference grid. This provides coordinate system data indicative of a coordinate system for the optical sensor relative to the grid, the optical sensor being fixed relative to the sensor encoder. Furthermore, a relative offset location of the probe tip and the head encoder of the scan head is determined, in order to allow positioning of the probe tip using the coordinate system obtained. The document also relates to a method of wafer alignment, an optical sensor, a support therefore, an assembly, a scanning probe microscopy system and a computer program product.

IPC 8 full level

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CPC (source: EP)

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