



(11) **EP 4 439 002 A8**

(12) **CORRECTED EUROPEAN PATENT APPLICATION**

(15) Correction information:
Corrected version no 1 (W1 A1)
Corrections, see
Bibliography INID code(s) 71

(51) International Patent Classification (IPC):
G01B 9/02 (2022.01) **G01B 9/02055** (2022.01)
G01B 9/02091 (2022.01)

(48) Corrigendum issued on:
27.11.2024 Bulletin 2024/48

(52) Cooperative Patent Classification (CPC):
G01B 9/02037; G01B 9/02062; G01B 9/02083;
G01B 9/02091

(43) Date of publication:
02.10.2024 Bulletin 2024/40

(21) Application number: **23165882.4**

(22) Date of filing: **31.03.2023**

(84) Designated Contracting States:
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB
GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL
NO PL PT RO RS SE SI SK SM TR
Designated Extension States:
BA
Designated Validation States:
KH MA MD TN

(72) Inventors:
• **NORMAND, Margaret Catherine**
Dunfermline, Scotland, KY11 8GR (GB)
• **PRECIADO, Miguel Angel**
Dunfermline, Scotland, KY11 8GR (GB)

(71) Applicant: **Optos plc**
Scotland KY11 8GR (GB)

(74) Representative: **Hoffmann Eitle**
Patent- und Rechtsanwälte PartmbB
Arabellastraße 30
81925 München (DE)

(54) **LINE-FIELD FOURIER-DOMAIN OPTICAL COHERENCE TOMOGRAPHY IMAGING SYSTEM**

(57) A line-field Fourier-domain optical coherence tomography, OCT, imaging system, comprising: a curved mirror, and a scanning element at a first focus of the mirror which scans, via the mirror, a line of light across an object at a second focus of the mirror, and receives, via the mirror, light scattered by the object and aberrated by the mirror to form an aberrated line of light; a photodetector array; an interferometer which projects an interference line of light resulting from an interference between a reference light and the aberrated line of light onto the photodetector array. The OCT imaging system generates OCT data based on the interference line of light detected by the photodetector array, and corrects the OCT data using phase information in the OCT data such that the corrected OCT data has less optical aberration than the OCT data.

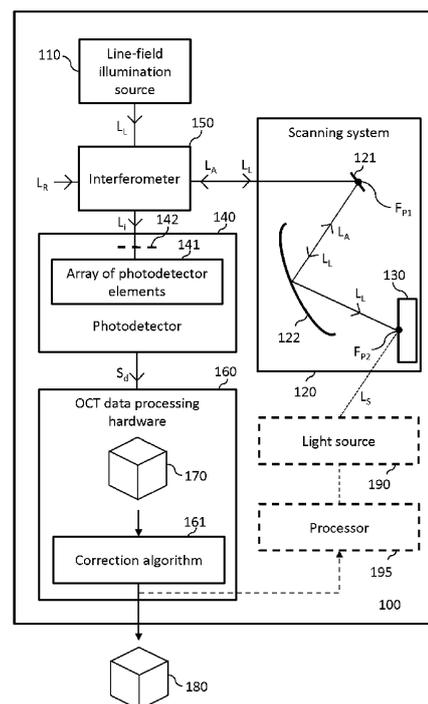


Fig. 1

EP 4 439 002 A8