

"LightHaus Photonics"

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1. [09316540](#) COMPACT SPECTROMETER

US - 19.04.2016

Int.Class [G01J 3/46](#) Appl.No 14642827 Applicant LightHaus Photonics, Pte. Ltd. Inventor Poh Boon Phua

A spectrometer for measuring a spectral signature of an object comprises fringe generating optics for use with a camera and a processor. The fringe generating optics are formed of front optics and birefringent optics. The front optics comprises a diffuser adapted to receive light from the object. The birefringent optics is adapted to receive light from the diffuser and to generate interference fringes. The camera is adapted to receive the interference fringes and the processor generates the spectral signature of the object. This spectrometer is an improved Fourier transform spectrometer suitable for use with digital cameras, such as cameras found in mobile devices.

2. [105890762](#) COMPACT SPECTROMETER

CN - 24.08.2016

Int.Class [G01J 3/447](#) Appl.No 10201600087856 Applicant LIGHTHAUS PHOTONICS, PTE. LTD. Inventor PHUA POH-BOON

A spectrometer for measuring a spectral signature of an object comprises fringe generating optics for use with a camera and a processor. The fringe generating optics are formed of front optics and birefringent optics. The front optics comprises a diffuser adapted to receive light from the object. The birefringent optics is adapted to receive light from the diffuser and to generate interference fringes. The camera is adapted to receive the interference fringes and the processor generates the spectral signature of the object. This spectrometer is an improved Fourier transform spectrometer suitable for use with digital cameras, such as cameras found in mobile devices.

3. [09316539](#) COMPACT SPECTROMETER

US - 19.04.2016

Int.Class [G01J 3/46](#) Appl.No 14844282 Applicant LightHaus Photonics Pte. Ltd. Inventor Poh Boon Phua

A spectrometer for measuring a spectral signature of an object comprises fringe generating optics for use with a camera and a processor. The fringe generating optics are formed of front optics and birefringent optics. The front optics comprises a diffuser adapted to receive light from the object. The birefringent optics is adapted to receive light from the diffuser and to generate interference fringes. The camera is adapted to receive the interference fringes and the processor generates the spectral signature of the object. This spectrometer is an improved Fourier transform spectrometer suitable for use with digital cameras, such as cameras found in mobile devices.

4. [10201800678X](#) FLUID METER OPTICS

SG - 27.08.2019

Int.Class Appl.No 10201800678X Applicant LightHaus Photonics, Pte. Ltd. Inventor Poh Boon, PHUA

15 FLUID METER OPTICS 1 2 ABSTRACT OF THE DISCLOSURE 3 4 Fluid meter optics are disclosed which are adapted to allow for inspection of a 5 display of a fluid meter, and comprise a housing having a first opening adapted to 6 receive light, an imaging sensor for automatic inspection, mounted on the housing, a 7 bandpass filter mounted on the housing, wherein a first band of wavelengths passes 8 from the bandpass filter to the imaging sensor, and a dichroic filter positioned 9 between the first opening and the display and adapted to pass a second range of 10 wavelengths of light reflected from the display through the dichroic filter. 11 12 13 Fig. 2 14

5. [10201501196P](#) COMPACT SPECTROMETER

SG - 29.09.2016

Int.Class [G01J 3/45](#) Appl.No 10201501196P Applicant LightHaus Photonics, Pte. Ltd. Inventor Poh Boon, PHUA

SG14-03 30 COMPACT SPECTROMETER 1 2 ABSTRACT OF THE DISCLOSURE 3 4 A spectrometer for measuring a spectral signature of an object comprises 5 fringe generating optics for use with a camera and a processor. The fringe 6 generating optics are formed of front optics and birefringent optics. The front optics 7 comprises a diffuser adapted to receive light from the object. The birefringent optics 8 is adapted to receive light from the diffuser and to generate interference fringes. The 9 camera is adapted to receive the interference fringes and the processor generates 10 the spectral signature of the object. This spectrometer is an improved 11 Fourier transform spectrometer suitable for use with digital cameras, such as 12 cameras found in mobile devices. 13 14 15 Fig. 1 16

6. [3056880](#) COMPACT SPECTROMETER

EP - 17.08.2016

Int.Class [G01J 3/02](#) Appl.No 15175050 Applicant LIGHTHAUS PHOTONICS PTE LTD Inventor PHUA POH BOON

A spectrometer [10] for measuring a spectral signature of an object comprises fringe generating optics [12] for use with a camera [65] and a processor. The fringe generating optics are formed of front optics [45] and birefringent optics [55]. The front optics comprises a diffuser adapted to receive light from the object. The birefringent optics is adapted to receive light from the diffuser and to generate interference fringes. The camera is adapted to receive the interference fringes and the processor generates the spectral signature of the object. This spectrometer is an improved Fourier transform spectrometer suitable for use with digital cameras, such as cameras found in mobile devices.

7. [2016183957](#) COMPACT SPECTROMETER

JP - 20.10.2016

Int.Class G01J 3/45 Appl.No 2016022243 Applicant LIGHTHAUS PHOTONICS PTE LTD Inventor POH BOON PHUA

PROBLEM TO BE SOLVED: To provide a compact spectrometer.

SOLUTION: A spectrometer 10 for measuring a spectral signature of an object comprises fringe generating optical member 12 for use with a camera 65 and a processor. The fringe generating optical member 12 is formed of a front optical member 45 and birefringent optical member. The front optical member 45 comprises a diffuser 75 adapted to receive light from the object. The birefringent optical member is adapted to receive light from the diffuser 75 and generate interference fringes. The camera 65 is adapted to receive the interference fringes and the processor generates the spectral signature of the object. This spectrometer 10 is an improved Fourier transform spectrometer suitable for use with digital cameras, such as cameras found in mobile devices 90.

SELECTED DRAWING: Figure 1

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