

Title (en)

APPARATUS AND METHOD FOR MEASURING OPTICAL CHARACTERISTICS OF AN OBJECT OR MATERIAL

Title (de)

VORRICHTUNG UND VERFAHREN ZUR MESSUNG OPTISCHER EIGENSCHAFTEN EINES OBJEKTS ODER MATERIALS

Title (fr)

APPAREIL ET PROCEDE DE MESURE DES CARACTERISTIQUES OPTIQUES D'UN OBJET OU D'UNE MATIERE

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Application

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- US 52412100 A 20000313

Abstract (en)

[origin: WO0146659A1] Low cost and form factor spectrometers are disclosed. A spectrometer comprises a substrate, a plurality of optical sensors (979), a plurality of spectral filters (977), an optical manifold (976) and one or more processing elements (980). The plurality of spectral filters (977) and the one or more processing elements (980) are mounted on the substrate. The spectral filters (977) are fixedly positioned over at least a group of the optical sensors (979) and fixedly positioned with respect to the substrate. An optical manifold (976) is fixedly positioned over the spectral filters (977). The optical manifold (976) has a plurality of exit ports and an entrance port, wherein light entering the entrance port is transmitted to an interior portion of the optical manifold (976) and a portion of the light is transmitted from the exit ports through some of the spectral filters (977). The spectrometers are disclosed embedded in printing and scanning devices, computer companion devices, scope-type devices and the like.

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Citation (search report)

- [X] EP 0646409 A1 19950405 - GEN ELECTRIC [US]
- [X] EP 0955164 A1 19991110 - MARQUIP INC [US]
- [X] EP 0491131 A1 19920624 - HEWLETT PACKARD CO [US]
- See references of WO 0146659A1

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