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Haar et al.

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[54] APPARATUS FOR LIGHT REFLECTION MEASUREMENTS

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Mannheim, Germany

[21] Appl. No.: 08/752,629

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[30] Foreign Application Priority Data

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Nov.	29, 1995	[DE]	Germany		195 44 501.5
[51]	Int. Cl.6				. A61B 5/00

[52] U.S. Cl. 600/310; 600/476; 356/338

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[57] ABSTRACT

An apparatus for light transport measurements on a test object with a measuring head which includes a contact surface for placing against an interface of the test object, light irradiation device with a light transmitter for irradiating light through the contact surface and an interface into the test object, and detection device with a light receiver for detecting light leaving the test object. The contact surface comprises at least one optically transparent light passage point for the light, on which a large number of rigid light-conducting elements are arranged, wherein an optical connection with a light transmitter or light receiver assigned to a light passage point is produced by the whole of the light-conducting elements of the light passage site.

32 Claims, 5 Drawing Sheets

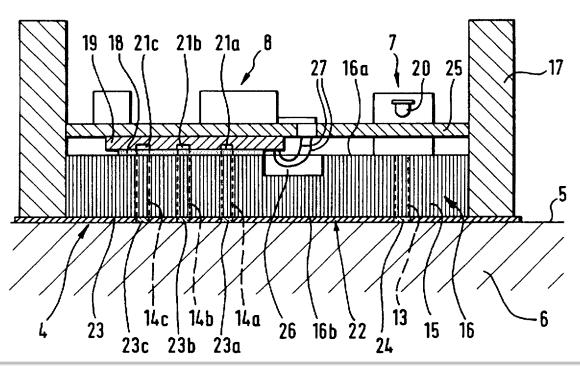




Fig. 1 11 10 EVALUATION UNIT LIGHT TRANSMITTER 13 20 LIGHT **DETECTOR**

Fig. 2

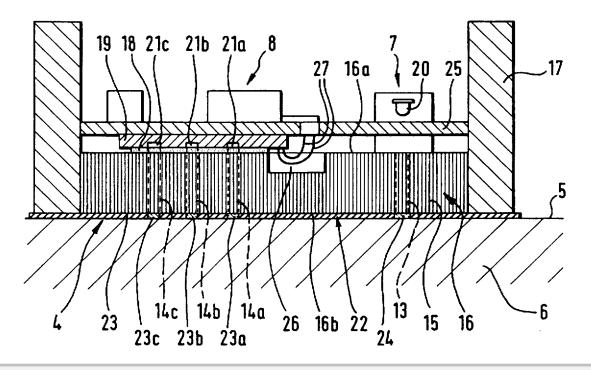


Fig. 3

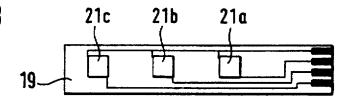


Fig. 4

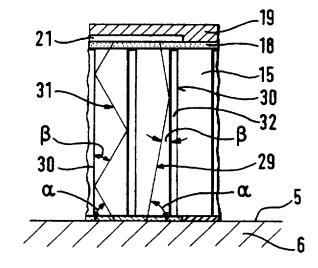
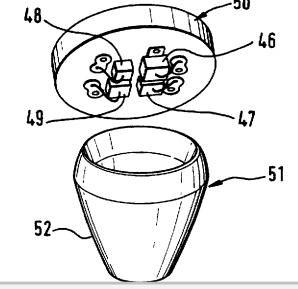
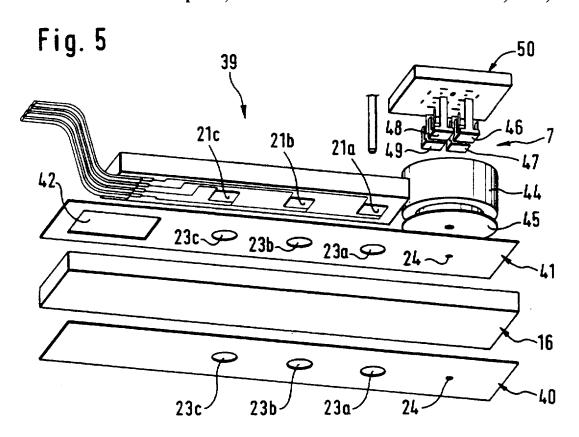
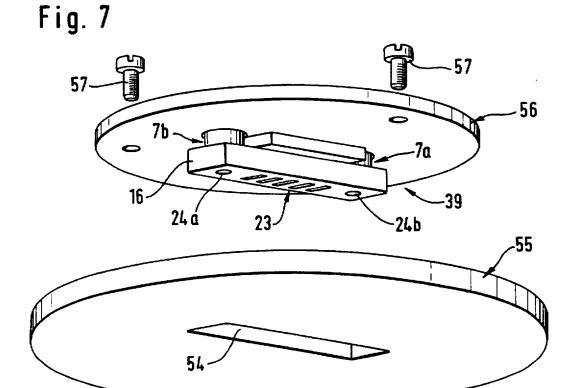


Fig. 6

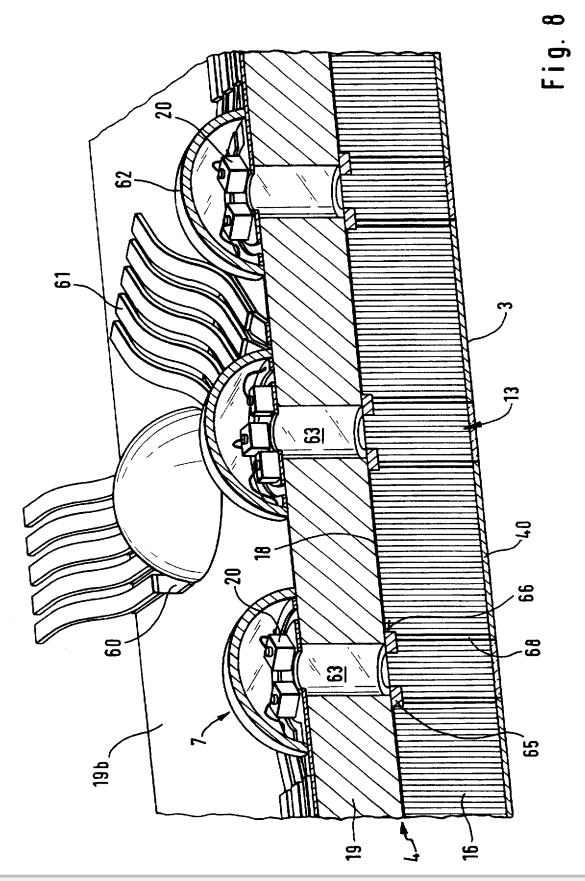














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